



# VISN 10 Northeast Ohio Market Data Discovery & Findings

**Submission to VISN Leadership October 4, 2019** 

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**Overview** 



## **Overview**

## **Document Purpose**

The Data Discovery & Findings (DD&F) deck is a standardized collection of data that will be used across market assessments to understand important aspects of each market. It is similar to the deck that was presented during previous VHA Office of Policy and Planning (OPP) market assessment trainings and will be used to develop key findings and inform the development of opportunities to create high-performing networks of care.

Data is pulled from a wide range of VA and commercial sources, and each slide cites the relevant data source.

The DD&F is one piece of the overall market assessment process. The assessments will also be informed by review of local data and site visits to ensure that both qualitative and quantitative data are considered. No single data point will be used as the deciding factor in determining opportunities for the market.

## **VA Market Area Health Systems Optimization**

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#### VISN 10: Northeast Ohio Market

## Overview > Assumptions

- VA Data & Analysis
- ✓ All VA data was extracted and provided by VA for use in the DD&F.
- √When there were discrepancies between data obtained from local sources and data obtained from national sources, national sources were used.
- ✓ In various places throughout the deck, there are mappings to translate data between different data types (e.g., HSPC, bed sections, stop codes, specialty, services lines, CPTs, DRGs, etc.). These mappings were provided by the Office of Policy & Planning (OPP) and implemented to aggregate or categorize data for display in the slides. It also allows for a better programmatic view of care.
- √Treating facilities that have a parent in a different market are displayed in both the treating facility market and the parent market.
- ✓ Enrollee Health Care Projection Model (EHCPM) citations include a combination of market-based and facility-based projections. These two projection model views are different, and the numbers are not intended to match.
- ✓ EHCPM data for the year 2017 is pulled from the "Actuals" databases instead of the projected year 2017.
- √The facilities contained within the DD&F are based on the Facility Hierarchy file provided by OPP. Any data for facilities not in this file are not included in the DD&F. Additionally, the facility market, county, parent, and name are found within this file.
- √The market hierarchy geography used to create the DD&F is from the BY17 EHCPM. All VISN/Market/County mappings are based off of this geography.
- ✓ Numeric values of data throughout the DD&F are rounded.
- ✓ Office of Community Care data was obtained using the Program Integrity Tool. This data may have anomalies, gaps, and missing values due to various methods of processing Choice data within the last several years.

  Any identified gaps were addressed with reasonable logic wherever possible; however, errors may remain.
- ✓ For maps, any site of care deactivated in VAST after July 18, 2019 will not be reflected.
- ✓ For workload trending purposes, slides may contain facilities that are deactivated, if they had workload in FY16, FY17 or FY18.
- ✓ Planned sites of care are not included on maps unless specifically requested and justified.

## Overview Assumptions, cont.

## • Commercial Market Data & Analysis

✓ The commercial market capacity assessment considers only reported physical capacity and does not incorporate: 1) ability to staff patient care services or accept VA patients; 2) length of time to change facilities to accommodate Veteran demand; and 3) any negotiations for specific rates for care provided in the community.

- ✓ Pediatric healthcare was not considered.
- ✓ IBM Market Expert FTE estimated demand is based on a median provider productivity level by service line.
- √The 10 year commercial workload estimates are based on the 10 year IBM/Watson Health Market Expert projections straight-lined through 2028.
- ✓ Community hospitals within a 60 minute drive time of the VAMC's zip code were the primary focus for assessment and used as a comparison to each VAMC.
- ✓ Due to differences in hospitals' cost reporting periods, FY18 CMS Cost Report data was used when available and FY17 CMS Cost Report data was used when FY18 data was not available.

## Quality

✓ Differences in quality metrics between VA and widely accepted commercial benchmarks introduce significant subjectivity.

## • Cost Analysis and Recommendations

✓ This is a high-level cost analysis. It compares three data points: internal VA cost to provide care to Veterans, potential cost to acquire the same care in the market at Medicare rates, and existing experience with purchase of Non-VA care as applicable.

✓ Adjusted total cost by DRG as well as non-VA purchased care paid by DRG was provided by VA.



**Demographics** Market Geography and Demographics

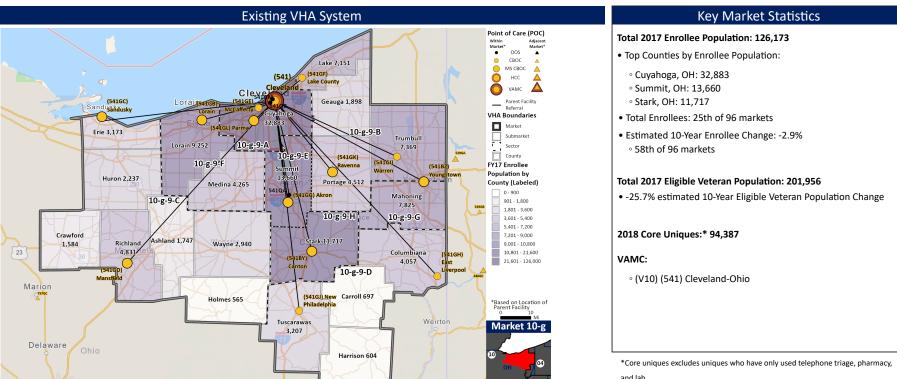


## **Demographics Existing VA Market and Facility Hierarchy**

| MARKET<br>CODE | MARKET<br>NAME | 2017 MARKET<br>ENROLLEE<br>POPULATION | SUBMARKET<br>CODE | SUBMARKET<br>NAME     | 2017 SUBMARKET<br>ENROLLEE<br>POPULATION | MEDICAL<br>CENTER<br>NAME | SECTOR<br>CODE | SECTOR<br>ENROLLEE<br>2017 POP | PROJECTED<br>SECTOR ENROLLEE<br>2027 POP | SECTOR CHANGE<br>RATE<br>2017-2027 | EXISTING FACILITY<br>NAME        | EXISTING FACILITY TYPE          |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|----------------|----------------|---------------------------------------|-------------------|-----------------------|--|---------------------------|----------------|--------------------------------|--|------------------------------------|----------------------------------|---------------------------------|---------------------------|-------------------|--------|----------------------|------------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|----------|--------|----------|-------|----------------------|----------------------|--------------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|-------|-------|-------|------------------------------|
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    | (V10) (541) Cleveland            | VA Medical Center (VAMC)        |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                | (V10) (541GE) McCafferty                 | Primary Care CBOC                  |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           | 10-g-9-A       | 32,883                         | 30,758                                   | -6.5%                              | (V10) (541GL) Parma              | Multi-Specialty CBOC            |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    | (V10) (541GM) Cleveland-Superior | Other Outpatient Services (OOS) |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                | (V10) (541QB) Cleveland-Euclid | Other Outpatient Services (OOS)          |                                    |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    |                                  |                                 | (V10) (541GF) Lake County | Primary Care CBOC |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    |                                  | 10-g-9-B                        | 20,930                    | 20,093            | -4.0%  | (V10) (541GI) Warren | Primary Care CBOC      |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                | (V10)          |                                       |                   |                       |  |                           |                |                                |  |                                    | (V10) (541GK) Ravenna            | Multi-Specialty CBOC            |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
| 10-g           | Northeast      | 126,174                               | 10-g-9            | V10 Northeast<br>Ohio | 126,174                                  | 126,174                   | 126,174        | 126,174                        | (V10) (541)<br>Cleveland                 |                                    |                                  |                                 | 10 ~ 0 0                  | 17,077            | 15 010 | -1.5%                | (V10) (541GC) Sandusky | Multi-Specialty CBOC |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                | Ohio           |                                       |                   |                       |  |                           | 10-g-9-C       | 17,077                         | 16,813                                   | -1.5%                              | (V10) (541GD) Mansfield          | Multi-Specialty CBOC            |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10-g-9-D | 8,565 | 8,357 | -2.4% | (V10) (541GH) East Liverpool |
|                |                |                                       |                   |                       |  |                           | 10-g-9-D       | 0,505                          | 6,337                                    | -2.470                             | (V10) (541GJ) New Philadelphia   | Primary Care CBOC               |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           | 10-g-9-E       | 13,660                         | 13,304                                   | -2.6%                              | (V10) (541GG) Akron              | Multi-Specialty CBOC            |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       | 10-8-3-E                                 | 15,000                    | 15,504         | -2.0%                          | (V10) (541QA) Summit County              | Other Outpatient Services (OOS)    |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  | 10-g-9-F | 13,517 | 14,234   | 5.3%  | (V10) (541GB) Lorain | Multi-Specialty CBOC |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           |                |                                |  |                                    |                                  |                                 |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        | 10-g-9-G | 7,825 | 7,136                | -8.8%                | (V10) (541BZ) Youngstown | Multi-Specialty CBOC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |
|                |                |                                       |                   |                       |  |                           | 10-g-9-H       | 11,717                         | 11,860                                   | 1.2%                               | (V10) (541BY) Canton             | Multi-Specialty CBOC            |                           |                   |        |                      |                        |                      |  |  |  |  |  |  |  |  |  |  |  |          |        |          |       |                      |                      |                          |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |       |       |       |                              |

Source: 1. BY17 EHCPM 2. FY18Q4 VAST Note: Mobile sites are not listed

#### **Market Overview Demographics**



and lab.



## **Demographics** Market Enrollee Demographics

|                 |          | County-Based | Enrollee Projection | S             |        |               |
|-----------------|----------|--------------|---------------------|---------------|--------|---------------|
| County          | Sector   | FY17         | FY27                | 10 Yr. Change | FY37   | 20 Yr. Change |
| Cuyahoga, OH    | 10-g-9-A | 32,883       | 30,758              | -6.46%        | 25,652 | -21.99%       |
| Sector Subtotal | 10-g-9-A | 32,883       | 30,758              | -6.46%        | 25,652 | -21.99%       |
| Trumbull, OH    | 10-g-9-B | 7,369        | 7,037               | -4.50%        | 5,970  | -18.99%       |
| Lake, OH        | 10-g-9-B | 7,151        | 6,923               | -3.18%        | 5,819  | -18.62%       |
| Portage, OH     | 10-g-9-B | 4,512        | 4,251               | -5.78%        | 3,630  | -19.55%       |
| Geauga, OH      | 10-g-9-B | 1,898        | 1,882               | -0.83%        | 1,595  | -15.94%       |
| Sector Subtotal | 10-g-9-B | 20,929       | 20,093              | -3.99%        | 17,014 | -18.71%       |
| Richland, OH    | 10-g-9-C | 4,831        | 4,820               | -0.23%        | 4,188  | -13.31%       |
| Erie, OH        | 10-g-9-C | 3,173        | 3,110               | -1.98%        | 2,838  | -10.56%       |
| Wayne, OH       | 10-g-9-C | 2,940        | 2,824               | -3.94%        | 2,469  | -16.00%       |
| Huron, OH       | 10-g-9-C | 2,237        | 2,179               | -2.60%        | 1,933  | -13.58%       |
| Ashland, OH     | 10-g-9-C | 1,747        | 1,724               | -1.33%        | 1,540  | -11.83%       |
| Crawford, OH    | 10-g-9-C | 1,584        | 1,570               | -0.88%        | 1,336  | -15.68%       |
| Holmes, OH      | 10-g-9-C | 565          | 586                 | 3.84%         | 536    | -5.14%        |
| Sector Subtotal | 10-g-9-C | 17,077       | 16,813              | -1.55%        | 14,841 | -13.09%       |
| Columbiana, OH  | 10-g-9-D | 4,057        | 3,929               | -3.17%        | 3,313  | -18.34%       |
| Tuscarawas, OH  | 10-g-9-D | 3,207        | 3,148               | -1.84%        | 2,705  | -15.63%       |
| Carroll, OH     | 10-g-9-D | 697          | 686                 | -1.56%        | 587    | -15.72%       |
| Harrison, OH    | 10-g-9-D | 604          | 594                 | -1.79%        | 490    | -19.00%       |
| Sector Subtotal | 10-g-9-D | 8,565        | 8,356               | -2.44%        | 7,095  | -17.16%       |

Note: Market totals do not exactly match following slides due to rounding by county within EHCPM.

Source: BY17 EHCPM VetPop & Enrollment



## **Demographics** Market Enrollee Demographics, cont.

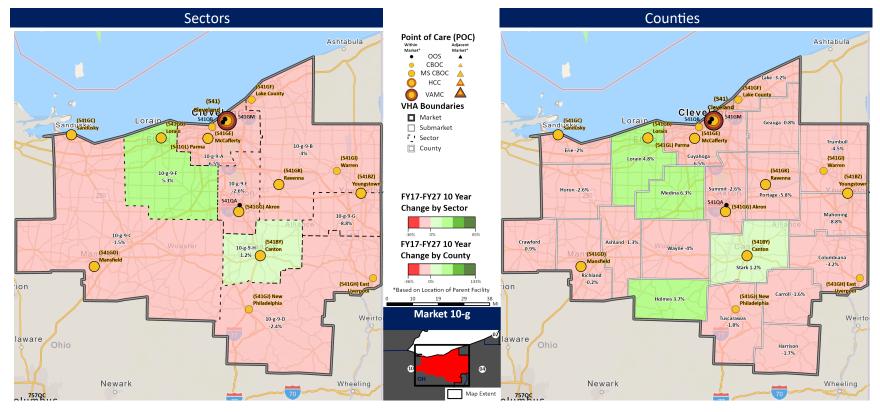
| County-Based Enrollee Projections |          |         |         |               |         |               |  |  |  |
|-----------------------------------|----------|---------|---------|---------------|---------|---------------|--|--|--|
| County                            | Sector   | FY17    | FY27    | 10 Yr. Change | FY37    | 20 Yr. Change |  |  |  |
| Summit, OH                        | 10-g-9-E | 13,660  | 13,304  | -2.61%        | 11,423  | -16.38%       |  |  |  |
| Sector Subtotal                   | 10-g-9-E | 13,660  | 13,304  | -2.61%        | 11,423  | -16.38%       |  |  |  |
| Lorain, OH                        | 10-g-9-F | 9,252   | 9,699   | 4.83%         | 8,569   | -7.38%        |  |  |  |
| Medina, OH                        | 10-g-9-F | 4,265   | 4,535   | 6.33%         | 4,083   | -4.27%        |  |  |  |
| Sector Subtotal                   | 10-g-9-F | 13,517  | 14,234  | 5.31%         | 12,652  | -6.40%        |  |  |  |
| Mahoning, OH                      | 10-g-9-G | 7,825   | 7,136   | -8.80%        | 5,966   | -23.76%       |  |  |  |
| Sector Subtotal                   | 10-g-9-G | 7,825   | 7,136   | -8.80%        | 5,966   | -23.76%       |  |  |  |
| Stark, OH                         | 10-g-9-H | 11,717  | 11,860  | 1.22%         | 10,481  | -10.54%       |  |  |  |
| Sector Subtotal                   | 10-g-9-H | 11,717  | 11,860  | 1.22%         | 10,481  | -10.54%       |  |  |  |
| Market Total                      | 10-g     | 126,173 | 122,555 | -2.87%        | 105,126 | -16.68%       |  |  |  |

Note: Market totals do not exactly match following slides due to rounding by county within EHCPM.

Source: BY17 EHCPM VetPop & Enrollment



**Demographics** Market Projected Enrollee 10-Year Change (FY17-27)



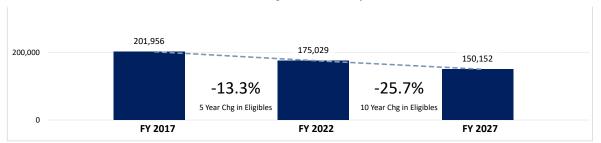
Source: BY17 EHCPM VetPop & Enrollment

## **Demographics**

## **Market Enrollee and Eligible Demographics**

|           | Market-Based Enrollee and Eligible Projections |            |            |               |            |               |  |  |  |
|-----------|--|------------|------------|---------------|------------|---------------|--|--|--|
| Geography | Measure  | FY17       | FY27       | 10 Yr. Change | FY37       | 20 Yr. Change |  |  |  |
| VISN      | EOY Enrollees                                  | 668,504    | 662,656    | -0.9%         | 578,845    | -13.4%        |  |  |  |
| Market    | <b>EOY Enrollees</b>                           | 126,173    | 122,555    | -2.9%         | 105,126    | -16.7%        |  |  |  |
| National  | <b>EOY Enrollees</b>                           | 8,753,704  | 8,896,391  | 1.6%          | 8,262,997  | -5.6%         |  |  |  |
| VISN      | Eligible Veterans                              | 1,135,601  | 884,968    | -22.1%        | 680,940    | -40.0%        |  |  |  |
| Market    | Eligible Veterans                              | 201,956    | 150,152    | -25.7%        | 110,176    | -45.4%        |  |  |  |
| National  | Eligible Veterans                              | 14,271,277 | 12,265,488 | -14.1%        | 10,448,365 | -26.8%        |  |  |  |

## **Estimated Eligible Veterans by Year**



Source: BY17 EHCPM VetPop & Enrollment 1.6.V10.NortheastOhio



## **Demographics**

## Market Enrollee and Eligible Demographics, cont.

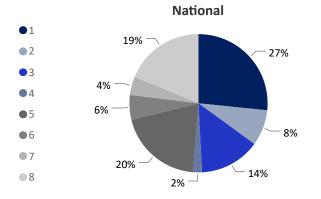
|          |                      | Sector-Based Enro | ollee and Eligible | Projections   |        |               |
|----------|----------------------|-------------------|--------------------|---------------|--------|---------------|
| Sector   | Measure              | FY17              | FY27               | 10 Yr. Change | FY37   | 20 Yr. Change |
| 10-g-9-A | EOY Enrollees        | 32,883            | 30,758             | -6.5%         | 25,652 | -22.0%        |
| 10-g-9-B | <b>EOY Enrollees</b> | 20,929            | 20,093             | -4.0%         | 17,014 | -18.7%        |
| 10-g-9-C | EOY Enrollees        | 17,077            | 16,813             | -1.5%         | 14,841 | -13.1%        |
| 10-g-9-D | EOY Enrollees        | 8,565             | 8,356              | -2.4%         | 7,095  | -17.2%        |
| 10-g-9-E | <b>EOY Enrollees</b> | 13,660            | 13,304             | -2.6%         | 11,423 | -16.4%        |
| 10-g-9-F | <b>EOY Enrollees</b> | 13,517            | 14,234             | 5.3%          | 12,652 | -6.4%         |
| 10-g-9-G | <b>EOY Enrollees</b> | 7,825             | 7,136              | -8.8%         | 5,966  | -23.8%        |
| 10-g-9-H | <b>EOY Enrollees</b> | 11,717            | 11,860             | 1.2%          | 10,481 | -10.5%        |
| 10-g-9-A | <b>EOY Eligibles</b> | 50,641            | 34,335             | -32.2%        | 23,134 | -54.3%        |
| 10-g-9-B | EOY Eligibles        | 33,635            | 24,617             | -26.8%        | 17,893 | -46.8%        |
| 10-g-9-C | EOY Eligibles        | 25,503            | 20,637             | -19.1%        | 15,969 | -37.4%        |
| 10-g-9-D | <b>EOY Eligibles</b> | 13,857            | 11,085             | -20.0%        | 8,220  | -40.7%        |
| 10-g-9-E | <b>EOY Eligibles</b> | 24,184            | 17,123             | -29.2%        | 12,513 | -48.3%        |
| 10-g-9-F | EOY Eligibles        | 24,321            | 19,544             | -19.6%        | 15,421 | -36.6%        |
| 10-g-9-G | <b>EOY Eligibles</b> | 12,381            | 8,875              | -28.3%        | 6,255  | -49.5%        |
| 10-g-9-H | EOY Eligibles        | 17,434            | 13,938             | -20.1%        | 10,772 | -38.2%        |
|          | -                    |                   |                    |               |        |               |
|          |                      |                   |                    |               |        |               |
|          |                      |                   |                    |               |        |               |
|          |                      |                   |                    |               |        |               |
|          |                      |                   |                    |               |        |               |

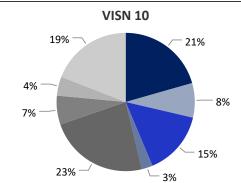
Source: BY17 EHCPM VetPop & Enrollment 1.19.V10.NortheastOhio



# **Demographics** Market Enrollee Priority Groups

|                    | 2017-2027 Market Enrollee Breakdown by Priority |                  |                |                  |                  |  |  |  |  |  |
|--------------------|---|------------------|----------------|------------------|------------------|--|--|--|--|--|
| Priority           | Enrollees 2017                                  | % Enrollees 2017 | Enrollees 2027 | % Enrollees 2027 | 10 Year % Change |  |  |  |  |  |
| 1                  | 21,685  | 17.2%            | 37,210         | 30.4%            | 71.6%            |  |  |  |  |  |
| 2                  | 8,231   | 6.5%             | 8,879          | 7.2%             | 7.9%             |  |  |  |  |  |
| 3                  | 15,089  | 12.0%            | 15,019         | 12.3%            | -0.5%            |  |  |  |  |  |
| 4                  | 4,505   | 3.6%             | 3,203          | 2.6%             | -28.9%           |  |  |  |  |  |
| 5                  | 35,195  | 27.9%            | 24,447         | 19.9%            | -30.5%           |  |  |  |  |  |
| 6                  | 8,863   | 7.0%             | 6,421          | 5.2%             | -27.5%           |  |  |  |  |  |
| 7                  | 6,248   | 5.0%             | 6,434          | 5.2%             | 3.0%             |  |  |  |  |  |
| 8                  | 26,357  | 20.9%            | 20,943         | 17.1%            | -20.5%           |  |  |  |  |  |
| <b>Grand Total</b> | 126,173   | 100.0%           | 122,555        | 100.0%           | -2.9%            |  |  |  |  |  |
|                    |   |                  |                |                  |                  |  |  |  |  |  |





Source: BY17 EHCPM VetPop & Enrollment 1.8.V10.NortheastOhio

•1

**2** 

•4

**6** 

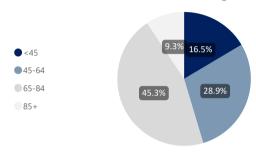
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8



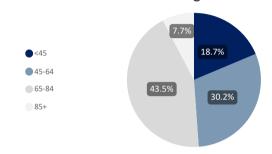
## **Demographics** Market Enrollee Population — Age and Gender

2017 Northeast Ohio Market Age Breakdown

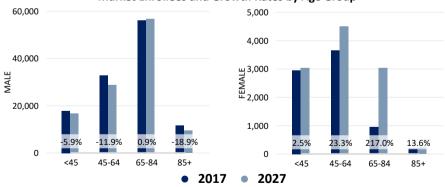


| Female Enrollee Population |                            |  |  |  |  |  |  |
|----------------------------|----------------------------|--|--|--|--|--|--|
| 2017                       | 2017 2027 10 Year % Change |  |  |  |  |  |  |
| 7,770 10,797 39.0%         |                            |  |  |  |  |  |  |

## 2017 VISN 10 Age Breakdown



## Market Enrollees and Growth Rates by Age Group



Source: BY17 EHCPM VetPop & Enrollment 1.10.V10.NortheastOhio



## **Demographics** Market Reliance

|             | VA Facility<br>Care | National VA<br>Facility Care | VA Facility<br>Variance from<br>National | Community<br>Care | National<br>Community<br>Care | Community Care Variance from National | Total<br>Reliance | National Total<br>Reliance | Total Reliance<br>Variance from<br>National |
|-------------|---------------------|------------------------------|--|-------------------|-------------------------------|---------------------------------------|-------------------|----------------------------|---|
| OP MED      | 32.2%               | 27.5%                        | 4.7%                                     | 4.6%              | 6.1%                          | -1.6%                                 | 36.8%             | 33.7%                      | 3.1%  |
| PATHOLOGY   | 49.4%               | 46.3%                        | 3.1%                                     | 2.5%              | 2.6%                          | -0.1%                                 | 51.9%             | 48.9%                      | 3.0%  |
| DIALYSIS    | 10.2%               | 7.4%                         | 2.8%                                     | 35.8%             | 33.4%                         | 2.5%                                  | 46.1%             | 40.8%                      | 5.3%  |
| OP SURG     | 32.5%               | 23.3%                        | 9.2%                                     | 3.2%              | 5.1%                          | -2.0%                                 | 35.6%             | 28.4%                      | 7.2%  |
| AUDIOLOGY   | 65.6%               | 56.7%                        | 8.8%                                     | 0.3%              | 2.8%                          | -2.5%                                 | 65.8%             | 59.5%                      | 6.3%  |
| IP MED      | 16.8%               | 18.5%                        | -1.7%                                    | 2.3%              | 5.5%                          | -3.2%                                 | 19.1%             | 24.0%                      | -4.9%                                       |
| IP SURG     | 16.9%               | 13.6%                        | 3.2%                                     | 4.2%              | 7.8%                          | -3.6%                                 | 21.0%             | 21.4%                      | -0.4%                                       |
| IP MH       | 36.7%               | 42.7%                        | -6.0%                                    | 2.4%              | 9.5%                          | -7.2%                                 | 39.1%             | 52.2%                      | -13.2%                                      |
| OP MH       | 89.7%               | 81.1%                        | 8.5%                                     | 1.7%              | 3.0%                          | -1.3%                                 | 91.4%             | 84.2%                      | 7.2%  |
| PROSTHETICS | 45.1%               | 47.6%                        | -2.4%                                    | 0.0%              | 0.0%                          | 0.0%                                  | 45.1%             | 47.6%                      | -2.4%                                       |
| TOTAL       | 28.3%               |                              | 3.1%                                     | 4.3%              | 6.7%                          | -2.4%                                 | 32.6%             | 31.8%                      | 0.8%  |

Projections from the VA Enrollee Health Care Projection Model (EHCPM) account for new enrollment based on demographic changes

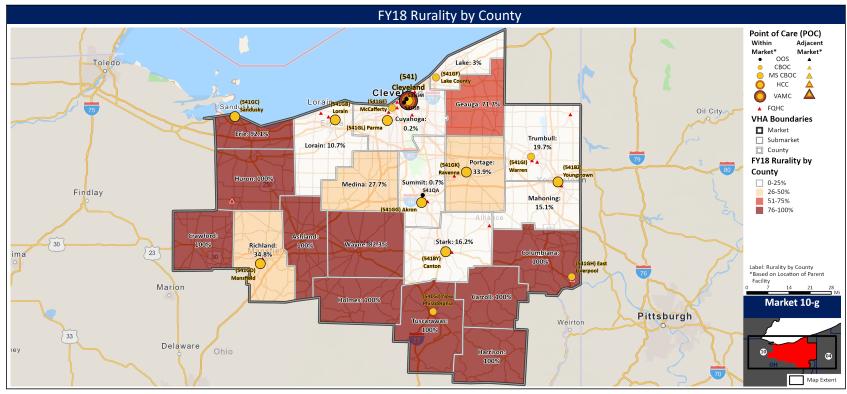
- Projections therefore account for a different pool of enrollees in the future as the enrollment population changes
- Some Veterans who are currently ineligible and unenrolled may become enrollees in the future

#### Potential use of health care in VA is projected for those Veterans who are assumed to be eligible and enrolled at a given point

- The EHCPM projects utilization of health care services rather than projecting patient/user counts
- o Some patients may use few services and some patients may use many, so projecting by utilization of health services provides a better picture of the amount of health care VA will need to provide
- Modeled projections accounts for the amount of care enrollees are expected to receive through VA rather than from their other sources of health care



## **Demographics** Market Current Enrollment Rurality – FY18



<sup>\*</sup> Includes Rural and Highly Rural Locations

Source: Geocoded Enrollee File FY18Q4 1.14.V10.NortheastOhio#IMG

## **Demographics**

## Market Current Enrollment Rurality — FY18, cont.

| County         | Urban Enrollees | Rural Enrollees* | % Rural | Total Enrollees |
|----------------|-----------------|------------------|---------|-----------------|
| Ashland, OH    | 0               | 1,813            | 100.0%  | 1,813           |
| Carroll, OH    | 0               | 1,020            | 100.0%  | 1,020           |
| Columbiana, OH | 0               | 3,841            | 100.0%  | 3,841           |
| Crawford, OH   | 0               | 1,430            | 100.0%  | 1,430           |
| Cuyahoga, OH   | 32,190          | 72               | 0.2%    | 32,262          |
| Erie, OH       | 242             | 2,804            | 92.1%   | 3,046           |
| Geauga, OH     | 587             | 1,485            | 71.7%   | 2,072           |
| Harrison, OH   | 0               | 582              | 100.0%  | 582             |
| Holmes, OH     | 0               | 571              | 100.0%  | 571             |
| Huron, OH      | 0               | 1,720            | 100.0%  | 1,720           |
| Lake, OH       | 6,887           | 212              | 3.0%    | 7,099           |
| Lorain, OH     | 8,495           | 1,017            | 10.7%   | 9,512           |
| Mahoning, OH   | 6,427           | 1,141            | 15.1%   | 7,568           |
| Medina, OH     | 3,133           | 1,201            | 27.7%   | 4,334           |
| Portage, OH    | 2,839           | 1,456            | 33.9%   | 4,295           |
| Richland, OH   | 3,063           | 1,637            | 34.8%   | 4,700           |
| Stark, OH      | 9,098           | 1,755            | 16.2%   | 10,853          |
| Summit, OH     | 13,951          | 105              | 0.7%    | 14,056          |
| Trumbull, OH   | 5,889           | 1,442            | 19.7%   | 7,331           |
| Tuscarawas, OH | 0               | 3,072            | 100.0%  | 3,072           |

Source: Geocoded Enrollee File FY18Q4

<sup>\*</sup> Includes Rural and Highly Rural Locations.

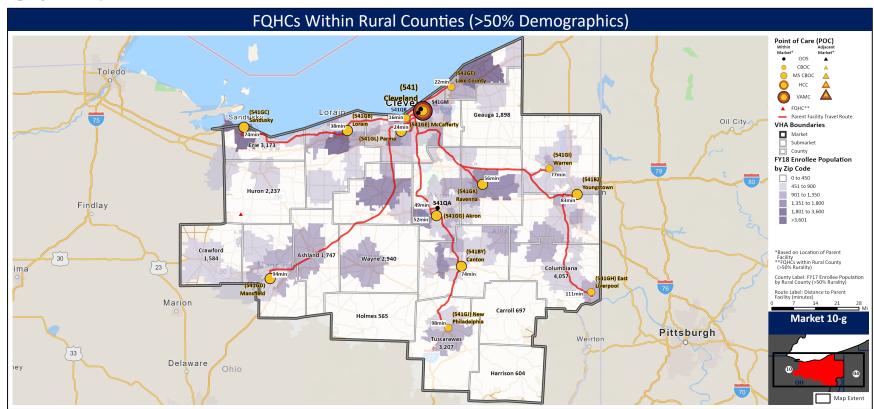
## **Demographics** Market Current Enrollment Rurality — FY18, cont.

| County    | Urban Enrollees | Rural Enrollees* | % Rural | Total Enrollees |
|-----------|-----------------|------------------|---------|-----------------|
| Wayne, OH | 481             | 2,243            | 82.3%   | 2,724           |
| Total     | 93,282          | 30,619           | 24.7%   | 123,901         |

Source: Geocoded Enrollee File FY18Q4

<sup>\*</sup> Includes Rural and Highly Rural Locations.

## **Demographics** Market Rurality



#### 

| Parent Facility            | Treating Facility Number | Treating Facility Name     | Initiative Title                                 | Approved Funding |
|----------------------------|--------------------------|----------------------------|--|------------------|
| (V10) (541) Cleveland-Ohio | 541                      | (V10) (541) Cleveland-Ohio | Clinical Pharmacy Specialist (CPS) Providers     | \$566,713        |
| (V10) (541) Cleveland-Ohio | 541GD                    | (V10) (541GD) Mansfield    | Social Work in Patient Aligned Care Teams (PACT) | \$358,802        |
| (V10) (541) Cleveland-Ohio | 541                      | (V10) (541) Cleveland-Ohio | Home Based Primary Care (HBPC)                   | \$282,700        |
| (V10) (541) Cleveland-Ohio | 541                      | (V10) (541) Cleveland-Ohio | Teledermatology Hub                              | \$15,946         |

# Office of Rural Health Project Funding Allocation Medical Center % National 2019 Total Funding Cleveland-Ohio 0.71% \$1,224,161 National 100.00% \$173,159,235

## FY19 Office of Rural Health Funded Project Allocation vs. Average National Allocation\*



Rank: 44 out of 117 Parent Facilities (ranked by total \$ funding)

\*111 Parent Facilities received ORH Funding Allocation for FY19

Note: The FY19 Funded Project List includes the top ten projects by approved funding.

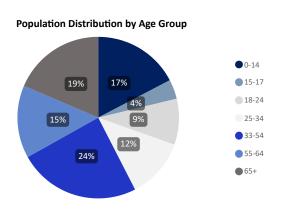
Source: VHA Office of Rural Health 1.16.V10.NortheastOhio.541

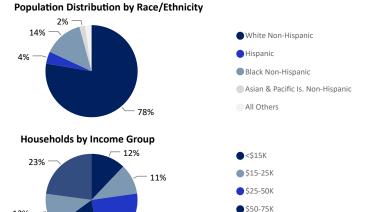


# Demographics ▶ Overall Market Population (Veterans and Non-Veterans) — Northeast Ohio Market

| Demographic Summary – Northeast Ohio |           |           |          |  |  |  |  |  |  |  |  |  |
|--------------------------------------|-----------|-----------|----------|--|--|--|--|--|--|--|--|--|
|                                      | 2018      | 2028*     | % Change |  |  |  |  |  |  |  |  |  |
| Population                           | 4,299,329 | 4,266,455 | -0.8%    |  |  |  |  |  |  |  |  |  |
| Male                                 | 2,092,610 | 2,080,979 | -0.6%    |  |  |  |  |  |  |  |  |  |
| Female                               | 2,206,719 | 2,185,476 | -1.0%    |  |  |  |  |  |  |  |  |  |

<sup>\*</sup> Population projections available through 2023; straight line growth rates applied through 2028.





24%

■\$75-100K

Over \$100K

Source: IBM Market Expert 1.17.V10.NortheastOhio

12% -

18%

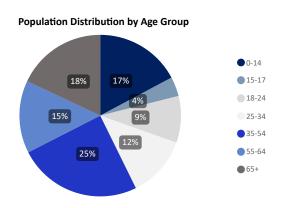


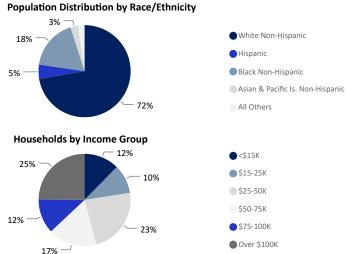
# **Demographics Overall Parent Facility**

# Overall Parent Facility Area Population (Veterans and Non-Veterans) — Cleveland-Ohio Area

| Demographic Summary – Cleveland-Ohio Area |           |           |          |  |  |  |  |  |  |  |  |  |
|---|-----------|-----------|----------|--|--|--|--|--|--|--|--|--|
|   | 2018      | 2028*     | % Change |  |  |  |  |  |  |  |  |  |
| Population                                | 2,760,341 | 2,752,028 | -0.3%    |  |  |  |  |  |  |  |  |  |
| Female                                    | 1,425,149 | 1,417,786 | -0.5%    |  |  |  |  |  |  |  |  |  |
| Male                                      | 1,335,192 | 1,334,242 | -0.1%    |  |  |  |  |  |  |  |  |  |

<sup>\*</sup> Population projections available through 2023; straight line growth rates applied through 2028. Population based on area within 60 minute drive from applicable VAMC/HCC.





Source: IBM Market Expert 1.18.V10.NortheastOhio.541



**Demand Estimated Current and Historic Market Demand** — **Outpatient** 



# **Demand** Core Uniques Trends by Facility

| Core Uniques*                       |        |        |        |        |        |        |               |  |  |  |  |  |  |  |
|-------------------------------------|--------|--------|--------|--------|--------|--------|---------------|--|--|--|--|--|--|--|
| Facility                            | FY13   | FY14   | FY15   | FY16   | FY17   | FY18   | 6 Year Change |  |  |  |  |  |  |  |
| (V10) (541) Cleveland-Ohio          | 68,132 | 71,284 | 72,761 | 73,562 | 73,462 | 73,919 | 8.5%          |  |  |  |  |  |  |  |
| (V10) (5419AA) Cleveland CLC        | 594    | 626    | 613    | 550    | 671    | 692    | 16.5%         |  |  |  |  |  |  |  |
| (V10) (541A0) Cleveland-Brecksville | N/A    | 2      | N/A    | N/A    | N/A    | N/A    | N/A           |  |  |  |  |  |  |  |
| (V10) (541BU) Cleveland Domiciliary | 805    | 807    | 810    | 866    | 863    | 866    | 7.6%          |  |  |  |  |  |  |  |
| (V10) (541BY) Canton                | 11,723 | 12,625 | 11,034 | 12,067 | 12,273 | 12,033 | 2.6%          |  |  |  |  |  |  |  |
| (V10) (541BZ) Youngstown            | 10,100 | 10,229 | 10,154 | 10,236 | 10,189 | 10,389 | 2.9%          |  |  |  |  |  |  |  |
| (V10) (541GB) Lorain                | 10,999 | 11,201 | 10,272 | 10,089 | 10,137 | 9,917  | -9.8%         |  |  |  |  |  |  |  |
| (V10) (541GC) Sandusky              | 5,051  | 4,813  | 5,120  | 4,231  | 4,375  | 4,328  | -14.3%        |  |  |  |  |  |  |  |
| (V10) (541GD) Mansfield             | 6,922  | 7,312  | 7,510  | 7,791  | 7,803  | 7,718  | 11.5%         |  |  |  |  |  |  |  |
| (V10) (541GE) McCafferty            | 2,343  | 2,030  | 2,462  | 2,366  | 1,887  | 1,823  | -22.2%        |  |  |  |  |  |  |  |
| (V10) (541GF) Lake County           | 6,691  | 6,679  | 6,839  | 7,286  | 6,994  | 6,621  | -1.0%         |  |  |  |  |  |  |  |
| (V10) (541GG) Akron                 | 14,122 | 14,709 | 15,518 | 15,640 | 15,866 | 16,365 | 15.9%         |  |  |  |  |  |  |  |
| (V10) (541GH) East Liverpool        | 2,886  | 3,025  | 2,929  | 2,863  | 3,014  | 3,435  | 19.0%         |  |  |  |  |  |  |  |
| (V10) (541GI) Warren                | 3,900  | 3,989  | 4,081  | 4,099  | 4,581  | 4,983  | 27.8%         |  |  |  |  |  |  |  |
| (V10) (541GJ) New Philadelphia      | 3,410  | 3,458  | 3,586  | 3,756  | 3,730  | 3,704  | 8.6%          |  |  |  |  |  |  |  |
|                                     |        |        |        |        |        |        |               |  |  |  |  |  |  |  |
|                                     |        |        |        |        |        |        |               |  |  |  |  |  |  |  |

<sup>\*</sup>Core uniques excludes uniques who have only used telephone triage, pharmacy, and lab.

Source: VSSC Uniques Cube 2.13.V10.NortheastOhio



# **Demand** Core Uniques Trends by Facility, cont.

|  | Core Uniques* |        |        |        |        |        |               |  |  |  |  |  |  |  |  |
|--|---------------|--------|--------|--------|--------|--------|---------------|--|--|--|--|--|--|--|--|
| Facility                               | FY13          | FY14   | FY15   | FY16   | FY17   | FY18   | 6 Year Change |  |  |  |  |  |  |  |  |
| (V10) (541GK) Ravenna                  | 3,366         | 3,517  | 3,553  | 3,595  | 3,613  | 3,924  | 16.6%         |  |  |  |  |  |  |  |  |
| (V10) (541GL) Parma                    | 23,613        | 26,695 | 24,820 | 26,348 | 27,141 | 27,328 | 15.7%         |  |  |  |  |  |  |  |  |
| (V10) (541GM) Cleveland-Superior       | N/A           | N/A    | 1,737  | 2,087  | 2,231  | 2,343  | N/A           |  |  |  |  |  |  |  |  |
| (V10) (541GN) State Street-Painesville | N/A           | N/A    | N/A    | N/A    | 2,532  | 3,636  | N/A           |  |  |  |  |  |  |  |  |
| (V10) (541PA) Cleveland PRRTP OH       | 150           | 170    | 210    | 173    | 109    | 56     | -62.7%        |  |  |  |  |  |  |  |  |
| (V10) (541QA) Summit County            | N/A           | N/A    | N/A    | N/A    | 767    | 1,118  | N/A           |  |  |  |  |  |  |  |  |
| (V10) (541QB) Cleveland-Euclid         | N/A           | N/A    | N/A    | N/A    | 945    | 1,666  | N/A           |  |  |  |  |  |  |  |  |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A           | N/A    | N/A    | 1,225  | 1,668  | 1,706  | N/A           |  |  |  |  |  |  |  |  |

Source: VSSC Uniques Cube 2.13.V10.NortheastOhio#2

<sup>\*</sup>Core uniques excludes uniques who have only used telephone triage, pharmacy, and lab.

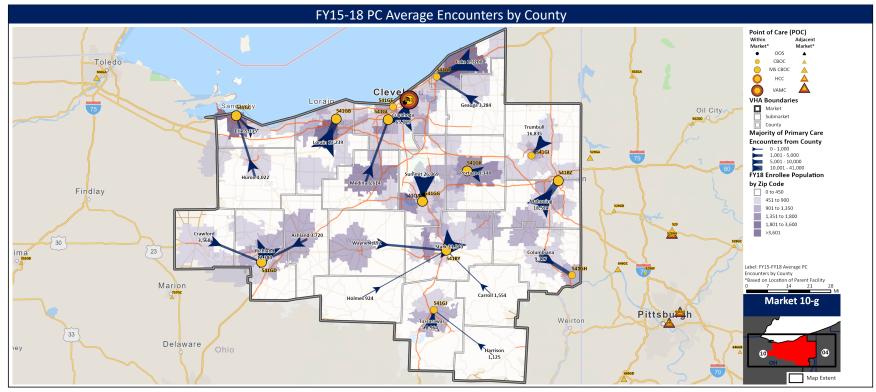
## **Demand Outpatient Encounters FY15-18**

|  |         | Mental H | Health  |         |         | Primary ( | Care    |         | Specialty Care |         |         |         |  |  |
|--|---------|----------|---------|---------|---------|-----------|---------|---------|----------------|---------|---------|---------|--|--|
| Facility                               | FY15    | FY16     | FY17    | FY18    | FY15    | FY16      | FY17    | FY18    | FY15           | FY16    | FY17    | FY18    |  |  |
| (V10) (541) Cleveland-Ohio             | 74,529  | 86,193   | 86,014  | 85,191  | 42,192  | 44,556    | 45,180  | 47,573  | 222,608        | 232,703 | 234,756 | 243,714 |  |  |
| (V10) (541BY) Canton                   | 12,447  | 13,268   | 13,521  | 14,733  | 26,329  | 25,690    | 27,761  | 29,086  | 13,932         | 21,973  | 24,560  | 25,595  |  |  |
| (V10) (541BZ) Youngstown               | 10,823  | 11,006   | 13,308  | 16,222  | 27,435  | 25,308    | 25,226  | 25,299  | 15,678         | 15,958  | 17,011  | 17,987  |  |  |
| (V10) (541GB) Lorain                   | 7,542   | 8,278    | 8,301   | 11,030  | 19,707  | 17,523    | 18,535  | 17,692  | 9,341          | 10,402  | 10,257  | 9,285   |  |  |
| (V10) (541GC) Sandusky                 | 3,920   | 4,761    | 5,707   | 6,340   | 12,932  | 8,685     | 8,181   | 9,133   | 4,994          | 6,098   | 5,475   | 6,047   |  |  |
| (V10) (541GD) Mansfield                | 10,427  | 10,958   | 10,323  | 11,288  | 21,868  | 21,584    | 22,027  | 21,941  | 14,470         | 15,827  | 14,833  | 15,040  |  |  |
| (V10) (541GE) McCafferty               | 2,495   | 2,374    | 2,446   | 2,063   | 4,928   | 4,536     | 3,762   | 3,803   | 288            | 1,150   | 1,343   | 1,309   |  |  |
| (V10) (541GF) Lake County              | 6,712   | 8,044    | 3,850   | 1,465   | 19,830  | 18,019    | 17,596  | 16,631  | 5,536          | 8,276   | 5,005   | 2,224   |  |  |
| (V10) (541GG) Akron                    | 15,626  | 18,011   | 19,621  | 22,826  | 31,118  | 29,550    | 29,384  | 31,213  | 28,581         | 27,356  | 28,643  | 32,906  |  |  |
| (V10) (541GH) East Liverpool           | 3,854   | 2,965    | 3,438   | 4,373   | 9,042   | 7,401     | 7,095   | 8,628   | 2,577          | 3,007   | 3,139   | 2,909   |  |  |
| (V10) (541GI) Warren                   | 4,551   | 4,778    | 5,683   | 4,733   | 11,568  | 10,416    | 11,262  | 12,448  | 4,687          | 6,004   | 6,223   | 5,610   |  |  |
| (V10) (541GJ) New Philadelphia         | 4,509   | 5,201    | 5,245   | 4,559   | 9,267   | 10,112    | 9,635   | 10,229  | 5,560          | 5,347   | 5,362   | 5,789   |  |  |
| (V10) (541GK) Ravenna                  | 3,754   | 3,913    | 4,148   | 5,011   | 9,315   | 8,940     | 9,317   | 9,930   | 3,891          | 4,441   | 4,694   | 5,256   |  |  |
| (V10) (541GL) Parma                    | 23,734  | 25,533   | 24,919  | 28,205  | 26,823  | 25,554    | 30,187  | 32,997  | 46,681         | 51,408  | 53,525  | 53,963  |  |  |
| (V10) (541GM) Cleveland-Superior       | N/A     | N/A      | N/A     | N/A     | N/A     | N/A       | N/A     | N/A     | N/A            | N/A     | 5       | 3       |  |  |
| (V10) (541GN) State Street-Painesville | N/A     | N/A      | 2,829   | 5,388   | N/A     | N/A       | 9       | N/A     | N/A            | N/A     | 3,006   | 5,899   |  |  |
| (V10) (541QB) Cleveland-Euclid         | N/A     | N/A      | N/A     | N/A     | N/A     | N/A       | N/A     | N/A     | N/A            | N/A     | 30      | 19      |  |  |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A     | N/A      | N/A     | N/A     | N/A     | N/A       | N/A     | N/A     | N/A            | 1,722   | 2,445   | 2,497   |  |  |
| (V10) (541) Cleveland-Ohio Total       | 184,923 | 205,283  | 209,353 | 223,427 | 272,354 | 257,874   | 265,157 | 276,603 | 378,824        | 411,672 | 420,312 | 436,052 |  |  |
| (V10) Northeast Ohio Total             | 184,923 | 205,283  | 209,353 | 223,427 | 272,354 | 257,874   | 265,157 | 276,603 | 378,824        | 411,672 | 420,312 | 436,052 |  |  |

Source: VSSC Outpatient Encounters Cube 2.20.V10.NortheastOhio



# **Demand** Primary Care Encounters – FY15-18



## **Demand** Primary Care Encounters – FY15-18, cont.

| County        | FY15-18 Avg<br>Encounters | FY18<br>Encounters | Most Commonly Used Facility | % of Encounters |
|---------------|---------------------------|--------------------|-----------------------------|-----------------|
| Ashland,OH    | 3,720                     | 4,056              | (541GD) Mansfield           | 86.5%           |
| Carroll,OH    | 1,554                     | 1,515              | (541BY) Canton              | 58.9%           |
| Columbiana,OH | 9,116                     | 9,311              | (541GH) East Liverpool      | 66.8%           |
| Crawford,OH   | 3,567                     | 3,732              | (541GD) Mansfield           | 78.6%           |
| Cuyahoga,OH   | 65,729                    | 71,051             | (541) Cleveland-Ohio        | 56.1%           |
| Erie,OH       | 5,335                     | 5,216              | (541GC) Sandusky            | 71.2%           |
| Geauga,OH     | 3,284                     | 3,473              | (541GF) Lake County         | 59.1%           |
| Harrison,OH   | 1,125                     | 1,171              | (541GJ) New Philadelphia    | 40.5%           |
| Holmes,OH     | 923                       | 1,054              | (541BY) Canton              | 43.7%           |
| Huron,OH      | 4,022                     | 4,130              | (541GC) Sandusky            | 58.5%           |
| Lake,OH       | 15,199                    | 14,857             | (541GF) Lake County         | 81.6%           |
| Lorain,OH     | 17,239                    | 17,016             | (541GB) Lorain              | 85.4%           |
| Mahoning,OH   | 18,524                    | 18,205             | (541BZ) Youngstown          | 90.7%           |
| Medina,OH     | 6,614                     | 7,280              | (541GL) Parma               | 50.3%           |
| Portage,OH    | 9,347                     | 9,693              | (541GK) Ravenna             | 75.4%           |
| Richland,OH   | 12,379                    | 12,735             | (541GD) Mansfield           | 91.2%           |
| Stark,OH      | 23,539                    | 25,293             | (541BY) Canton              | 85.3%           |
| Summit,OH     | 26,069                    | 27,188             | (541GG) Akron               | 83.6%           |
| Trumbull,OH   | 16,834                    | 17,064             | (541GI) Warren              | 58.1%           |
| Tuscarawas,OH | 8,963                     | 9,399              | (541GJ) New Philadelphia    | 81.8%           |



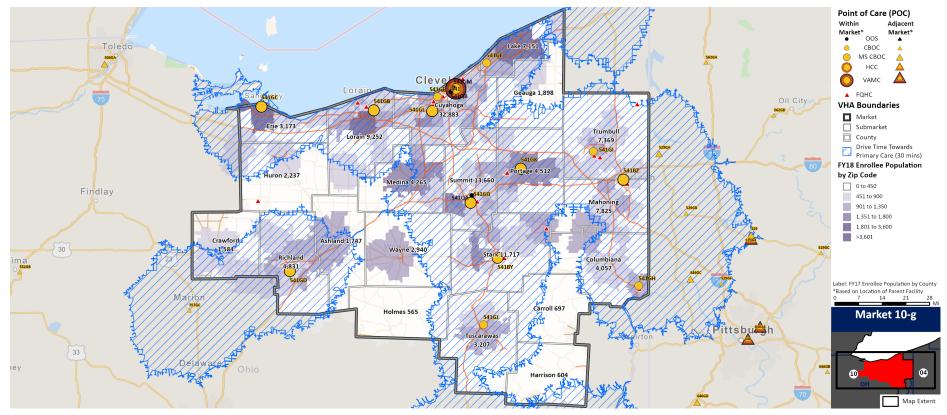
# **Demand**

## Primary Care Encounters – FY15-18, cont.

| County   | FY15-18 Avg<br>Encounters | FY18<br>Encounters | Most Commonly Used Facility | % of Encounters |
|----------|---------------------------|--------------------|-----------------------------|-----------------|
| Wayne,OH | 4,792                     | 5,046              | (541BY) Canton              | 53.5%           |
| Total    | 257,874                   | 268,485            |                             |                 |



# **Demand** Primary Care Drive Times for FY18 Enrollees



Source: Geocoded Enrollee File FY18Q4

2.3.V10.NortheastOhio



# **Demand** ► Top Primary Care Stop Code\* Trends FY15-FY18 — Cleveland-Ohio

|                            |   |        | End    | counters |        |          | Unique Patients |        |        |        |          | CPT Work RVU |        |        |        |          |
|----------------------------|---|--------|--------|----------|--------|----------|-----------------|--------|--------|--------|----------|--------------|--------|--------|--------|----------|
| Facility                   | Stop Code   | FY15   | FY16   | FY17     | FY18   | 4 Yr. Ch | FY15            | FY16   | FY17   | FY18   | 4 Yr. Ch | FY15         | FY16   | FY17   | FY18   | 4 Yr. Ch |
| (V10) (541) Cleveland-Ohio | (323) PRIMARY<br>CARE/MEDICINE                        | 33,063 | 34,735 | 34,867   | 36,117 | 9.2%     | 11,185          | 10,919 | 10,590 | 10,398 | -7.0%    | 33,195       | 33,319 | 33,588 | 35,775 | 7.8%     |
| (V10) (541) Cleveland-Ohio | (350) GeriPACT  | 6,724  | 6,589  | 7,016    | 7,878  | 17.2%    | 1,460           | 1,662  | 1,761  | 1,875  | 28.4%    | 8,299        | 6,643  | 7,246  | 8,045  | -3.1%    |
| (V10) (541) Cleveland-Ohio | (322) Comprehensive<br>Women's Primary Care<br>Clinic | 2,405  | 3,232  | 3,297    | 3,578  | 48.8%    | 990             | 1,195  | 1,249  | 1,287  | 30.0%    | 3,032        | 3,808  | 4,076  | 4,591  | 51.4%    |
| (V10) (541BY) Canton       | (323) PRIMARY<br>CARE/MEDICINE                        | 26,328 | 25,672 | 27,695   | 29,010 | 10.2%    | 9,138           | 9,445  | 9,497  | 9,682  | 6.0%     | 24,154       | 24,660 | 27,049 | 27,792 | 15.1%    |
| (V10) (541BY) Canton       | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 18     | 66       | 76     |          | N/A             | 15     | 58     | 70     |          | N/A          | 25     | 93     | 120    |          |
| (V10) (541BY) Canton       | (350) GeriPACT  | 1      | N/A    | N/A      | N/A    | -100.0%  | 1               | N/A    | N/A    | N/A    | -100.0%  | 2            | N/A    | N/A    | N/A    | -100.0%  |
| (V10) (541BZ) Youngstown   | (323) PRIMARY<br>CARE/MEDICINE                        | 27,435 | 25,213 | 25,008   | 24,996 | -8.9%    | 7,585           | 7,681  | 7,550  | 7,468  | -1.5%    | 25,185       | 21,052 | 19,499 | 19,560 | -22.3%   |



# **Demand** ► Top Primary Care Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

|                          |   |        | En     | counters |        |          |       | Ur    | nique Patier | nts   |          | CPT Work RVU |        |        |        |          |
|--------------------------|---|--------|--------|----------|--------|----------|-------|-------|--------------|-------|----------|--------------|--------|--------|--------|----------|
| Facility                 | Stop Code   | FY15   | FY16   | FY17     | FY18   | 4 Yr. Ch | FY15  | FY16  | FY17         | FY18  | 4 Yr. Ch | FY15         | FY16   | FY17   | FY18   | 4 Yr. Ch |
| (V10) (541BZ) Youngstown | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 95     | 218      | 303    |          | N/A   | 91    | 206          | 271   |          | N/A          | 197    | 461    | 589    |          |
| (V10) (541GB) Lorain     | (323) PRIMARY<br>CARE/MEDICINE                        | 19,707 | 17,369 | 18,260   | 17,424 | -11.6%   | 6,580 | 7,219 | 7,354        | 6,902 | 4.9%     | 18,730       | 16,753 | 17,138 | 15,795 | -15.7%   |
| (V10) (541GB) Lorain     | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 154    | 275      | 268    |          | N/A   | 135   | 216          | 215   |          | N/A          | 153    | 293    | 305    |          |
| (V10) (541GC) Sandusky   | (323) PRIMARY<br>CARE/MEDICINE                        | 12,932 | 8,660  | 8,130    | 9,087  | -29.7%   | 4,633 | 3,822 | 3,734        | 3,813 | -17.7%   | 11,695       | 7,447  | 6,932  | 8,111  | -30.6%   |
| (V10) (541GC) Sandusky   | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 25     | 51       | 46     |          | N/A   | 24    | 49           | 45    |          | N/A          | 27     | 42     | 55     |          |
| (V10) (541GD) Mansfield  | (323) PRIMARY<br>CARE/MEDICINE                        | 21,868 | 21,530 | 21,949   | 21,867 | -0.0%    | 6,773 | 6,971 | 6,797        | 6,906 | 2.0%     | 18,340       | 18,373 | 18,198 | 17,984 | -1.9%    |
| (V10) (541GD) Mansfield  | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 54     | 78       | 74     |          | N/A   | 51    | 74           | 70    |          | N/A          | 73     | 112    | 114    |          |



# **Demand** ► Top Primary Care Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

|                              |   |        | Unique Patients |        |        |          |        | CPT Work RVU |        |        |              |        |        |        |        |              |
|------------------------------|---|--------|-----------------|--------|--------|----------|--------|--------------|--------|--------|--------------|--------|--------|--------|--------|--------------|
| Facility                     | Stop Code   | FY15   | FY16            | FY17   | FY18   | 4 Yr. Ch | FY15   | FY16         | FY17   | FY18   | 4 Yr. Ch     | FY15   | FY16   | FY17   | FY18   | 4 Yr. Ch     |
| (V10) (541GE) McCafferty     | (323) PRIMARY<br>CARE/MEDICINE                        | 4,928  | 4,528           | 3,746  | 3,775  | -23.4%   | 1,802  | 1,634        | 1,470  | 1,461  | -18.9%       | 4,446  | 3,906  | 3,126  | 3,587  | -19.3%       |
| (V10) (541GE) McCafferty     | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 8               | 16     | 28     |          | N/A    | 8            | 15     | 23     |              | N/A    | 9      | 18     | 18     |              |
| (V10) (541GF) Lake County    | (323) PRIMARY<br>CARE/MEDICINE                        | 19,830 | 17,987          | 17,562 | 16,595 | -16.3%   | 6,265  | 6,407        | 6,254  | 5,947  | -5.1%        | 19,047 | 16,200 | 14,174 | 14,183 | -25.5%       |
| (V10) (541GF) Lake County    | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 32              | 34     | 36     |          | N/A    | 32           | 31     | 33     |              | N/A    | 38     | 31     | 35     |              |
| (V10) (541GG) Akron          | (323) PRIMARY<br>CARE/MEDICINE                        | 31,116 | 29,505          | 29,169 | 30,954 | -0.5%    | 10,772 | 10,905       | 10,827 | 10,995 | 2.1%         | 29,206 | 25,515 | 25,433 | 28,221 | -3.4%        |
| (V10) (541GG) Akron          | (322) Comprehensive<br>Women's Primary Care<br>Clinic | 2      | 45              | 215    | 259    | 12850.0% | 2      | 44           | 200    | 244    | 12100.0<br>% | 1      | 47     | 240    | 287    | 57334.0<br>% |
| (V10) (541GH) East Liverpool | (323) PRIMARY<br>CARE/MEDICINE                        | 9,042  | 7,401           | 7,069  | 8,590  | -5.0%    | 2,689  | 2,552        | 2,594  | 3,099  | 15.2%        | 7,615  | 6,398  | 6,320  | 8,307  | 9.1%         |



# **Demand** ► Top Primary Care Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

|                                   |   |        | En     | counters |        |          | Unique Patients |       |       |       |          |        | CPT Work RVU |        |        |          |  |
|-----------------------------------|---|--------|--------|----------|--------|----------|-----------------|-------|-------|-------|----------|--------|--------------|--------|--------|----------|--|
| Facility                          | Stop Code   | FY15   | FY16   | FY17     | FY18   | 4 Yr. Ch | FY15            | FY16  | FY17  | FY18  | 4 Yr. Ch | FY15   | FY16         | FY17   | FY18   | 4 Yr. Ch |  |
| (V10) (541GH) East Liverpool      | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | N/A    | 26       | 38     |          | N/A             | N/A   | 26    | 36    |          | N/A    | N/A          | 38     | 58     |          |  |
| (V10) (541GI) Warren              | (323) PRIMARY<br>CARE/MEDICINE                        | 11,568 | 10,414 | 11,223   | 12,408 | 7.3%     | 3,836           | 3,783 | 4,239 | 4,539 | 18.3%    | 12,226 | 10,208       | 10,350 | 13,415 | 9.7%     |  |
| (V10) (541GI) Warren              | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 2      | 39       | 40     |          | N/A             | 2     | 37    | 38    |          | N/A    | 2            | 44     | 58     |          |  |
| (V10) (541GJ) New<br>Philadelphia | (323) PRIMARY<br>CARE/MEDICINE                        | 9,267  | 10,095 | 9,614    | 10,201 | 10.1%    | 3,145           | 3,251 | 3,160 | 3,198 | 1.7%     | 6,428  | 7,433        | 5,986  | 6,364  | -1.0%    |  |
| (V10) (541GJ) New<br>Philadelphia | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 17     | 21       | 28     |          | N/A             | 15    | 20    | 28    |          | N/A    | 21           | 24     | 27     |          |  |
| (V10) (541GK) Ravenna             | (323) PRIMARY<br>CARE/MEDICINE                        | 9,315  | 8,919  | 9,246    | 9,859  | 5.8%     | 3,287           | 3,218 | 3,323 | 3,546 | 7.9%     | 9,367  | 7,613        | 8,128  | 8,188  | -12.6%   |  |
| (V10) (541GK) Ravenna             | (322) Comprehensive<br>Women's Primary Care<br>Clinic | N/A    | 21     | 71       | 71     |          | N/A             | 20    | 60    | 63    |          | N/A    | 24           | 82     | 80     |          |  |



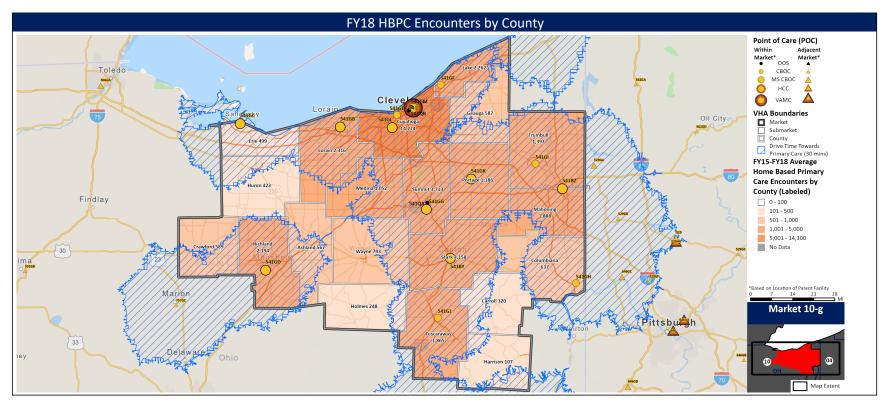
**Demand** ► Top Primary Care Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

|  |   | Encounters |        |        |        | Unique Patients |        |        |        | CPT Work RVU |          |        |        |        |        |          |
|--|---|------------|--------|--------|--------|-----------------|--------|--------|--------|--------------|----------|--------|--------|--------|--------|----------|
| Facility                                   | Stop Code   | FY15       | FY16   | FY17   | FY18   | 4 Yr. Ch        | FY15   | FY16   | FY17   | FY18         | 4 Yr. Ch | FY15   | FY16   | FY17   | FY18   | 4 Yr. Ch |
| (V10) (541GL) Parma                        | (323) PRIMARY<br>CARE/MEDICINE                        | 26,537     | 25,245 | 29,651 | 32,436 | 22.2%           | 10,203 | 10,111 | 10,982 | 11,489       | 12.6%    | 27,689 | 24,256 | 27,918 | 29,650 | 7.1%     |
| (V10) (541GL) Parma                        | (322) Comprehensive<br>Women's Primary Care<br>Clinic | 286        | 309    | 536    | 561    | 96.2%           | 243    | 253    | 392    | 384          | 58.0%    | 617    | 607    | 921    | 900    | 45.8%    |
| (V10) (541GN) State Street-<br>Painesville | (323) PRIMARY<br>CARE/MEDICINE                        | N/A        | N/A    | 9      | N/A    |                 | N/A    | N/A    | 8      | N/A          |          | N/A    | N/A    | 0      | N/A    |          |

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments. \* Includes top 3 stop codes, where applicable (some sites reported less than 3).

**Demand** 

### **Home-Based Primary Care**



Source: VSSC Encounters Cube 2.14.V10.NortheastOhio#IMG

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## **Home-Based Primary Care, cont.**

| FY15-18 HBPC Uniques & Encounter Distribution |      |       |         |       |       |       |       |            |       |       |  |  |  |
|---|------|-------|---------|-------|-------|-------|-------|------------|-------|-------|--|--|--|
| Facility                                      |      |       | Uniques |       |       |       |       | Encounters |       |       |  |  |  |
|   | FY15 | FY16  | FY17    | FY18  | AVG   | FY15  | FY16  | FY17       | FY18  | AVG   |  |  |  |
| (541) Cleveland-Ohio                          | 871  | 1,253 | 1,453   | 1,429 | 1,251 | 8,536 | 9,027 | 9,287      | 8,869 | 8,929 |  |  |  |
| (541BY) Canton                                | 435  | 382   | 378     | 383   | 394   | 4,355 | 4,113 | 3,974      | 3,844 | 4,071 |  |  |  |
| (541BZ) Youngstown                            | 379  | 361   | 371     | 439   | 387   | 3,703 | 3,345 | 3,349      | 3,485 | 3,470 |  |  |  |
| (541GB) Lorain                                | 313  | 315   | 316     | 372   | 329   | 3,747 | 3,334 | 3,254      | 3,657 | 3,498 |  |  |  |
| (541GD) Mansfield                             | 328  | 338   | 344     | 381   | 347   | 3,703 | 3,625 | 3,577      | 3,802 | 3,676 |  |  |  |
| (541GF) Lake County                           | 348  | 398   | 359     | 387   | 373   | 4,101 | 4,098 | 3,699      | 3,765 | 3,915 |  |  |  |
| (541GG) Akron                                 | 553  | 623   | 690     | 806   | 668   | 6,019 | 7,932 | 8,232      | 8,101 | 7,571 |  |  |  |
| (541GJ) New Philadelphia                      | 241  | 271   | 249     | 285   | 261   | 3,279 | 3,440 | 3,011      | 3,443 | 3,293 |  |  |  |
| (541GL) Parma                                 | 463  | 428   | 511     | 556   | 489   | 4,409 | 4,498 | 4,343      | 4,406 | 4,414 |  |  |  |

Source: VSSC Encounters Cube 2.14.V10.NortheastOhio



## **Demand**

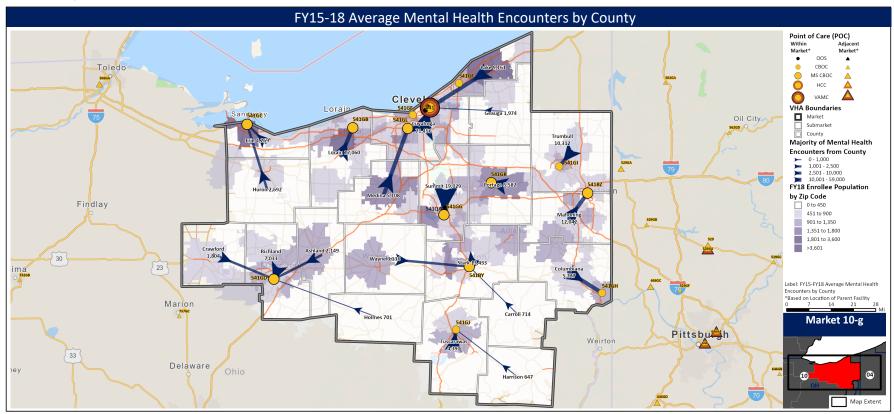
### **Home-Based Primary Care by Provider Type**

|               | FY  | 18 HBPC Encounte | ers by Provider Type | 2     |       |        |
|---------------|-----|------------------|----------------------|-------|-------|--------|
| Provider Type | MD  | RN               | SW                   | MH    | RD    | Other  |
| Encounters    | N/A | 15,124           | 7,675                | 2,527 | 5,727 | 12,319 |
| Percentage    | N/A | 34.9%            | 17.7%                | 5.8%  | 13.2% | 28.4%  |

Source: VSSC Encounters Cube 2.36.V10.NortheastOhio



### **Demand** Mental Health Encounters – FY15-18



### **Demand** ► Mental Health Encounters — FY15-18, cont.

| County        | FY15-18 Avg Encounters | FY18 Encounters | Most Commonly Used Facility    | % of Encounters |
|---------------|------------------------|-----------------|--------------------------------|-----------------|
| Ashland,OH    | 2,149                  | 1,999           | (V10) (541GD) Mansfield        | 77.1%           |
| Carroll,OH    | 714                    | 644             | (V10) (541BY) Canton           | 46.7%           |
| Columbiana,OH | 5,227                  | 6,059           | (V10) (541GH) East Liverpool   | 54.9%           |
| Crawford,OH   | 1,804                  | 2,053           | (V10) (541GD) Mansfield        | 57.0%           |
| Cuyahoga,OH   | 71,456                 | 77,458          | (V10) (541) Cleveland-Ohio     | 65.5%           |
| Erie,OH       | 4,269                  | 5,047           | (V10) (541GC) Sandusky         | 55.8%           |
| Geauga,OH     | 1,975                  | 2,886           | (V10) (541) Cleveland-Ohio     | 49.5%           |
| Harrison,OH   | 647                    | 605             | (V10) (541GJ) New Philadelphia | 26.8%           |
| Holmes,OH     | 701                    | 755             | (V10) (541GD) Mansfield        | 37.4%           |
| Huron,OH      | 2,692                  | 3,202           | (V10) (541GC) Sandusky         | 48.3%           |
| Lake,OH       | 9,161                  | 9,762           | (V10) (541) Cleveland-Ohio     | 41.7%           |
| Lorain,OH     | 12,061                 | 14,488          | (V10) (541GB) Lorain           | 62.5%           |
| Mahoning,OH   | 12,042                 | 14,072          | (V10) (541BZ) Youngstown       | 74.1%           |
| Medina,OH     | 5,108                  | 5,833           | (V10) (541GL) Parma            | 49.7%           |
| Portage,OH    | 5,582                  | 5,832           | (V10) (541GK) Ravenna          | 57.4%           |
| Richland,OH   | 7,033                  | 7,345           | (V10) (541GD) Mansfield        | 80.8%           |
| Stark,OH      | 13,433                 | 15,159          | (V10) (541BY) Canton           | 72.3%           |
| Summit,OH     | 19,029                 | 22,143          | (V10) (541GG) Akron            | 66.7%           |

### **Demand** ► Mental Health Encounters — FY15-18, cont.

| County        | FY15-18 Avg Encounters | FY18 Encounters | Most Commonly Used Facility    | % of Encounters |
|---------------|------------------------|-----------------|--------------------------------|-----------------|
| Trumbull,OH   | 10,313                 | 11,335          | (V10) (541GI) Warren           | 35.3%           |
| Tuscarawas,OH | 4,391                  | 4,275           | (V10) (541GJ) New Philadelphia | 69.8%           |
| Wayne,OH      | 3,136                  | 2,689           | (V10) (541BY) Canton           | 42.2%           |
| Total         | 192,922                | 213,641         |                                |                 |



## **Demand** ► Top Mental Health Stop Code\* Trends FY15-FY18 — Cleveland-Ohio

|                            |                              | Encounters |        |        |        | Unique Patients |       |       |       | CPT Work RVU |           |        |        |        |        |           |
|----------------------------|------------------------------|------------|--------|--------|--------|-----------------|-------|-------|-------|--------------|-----------|--------|--------|--------|--------|-----------|
| Facility                   | Stop Code                    | FY15       | FY16   | FY17   | FY18   | 4 Yr Ch.        | FY15  | FY16  | FY17  | FY18         | 4 Yr. Ch. | FY15   | FY16   | FY17   | FY18   | 4 Yr. Ch. |
| (V10) (541) Cleveland-Ohio | (502) MH CLINIC IND          | 24,389     | 31,874 | 34,159 | 34,746 | 42.5%           | 4,158 | 5,383 | 5,633 | 5,483        | 31.9%     | 46,797 | 63,155 | 69,269 | 74,244 | 58.6%     |
| (V10) (541) Cleveland-Ohio | (560) SUB USE DISORDER GROUP | 25,517     | 27,196 | 21,972 | 22,232 | -12.9%          | 646   | 716   | 685   | 710          | 9.9%      | 11,667 | 11,399 | 9,841  | 9,838  | -15.7%    |
| (V10) (541) Cleveland-Ohio | (513) SUB USE DISORDER INDIV | 11,345     | 11,010 | 9,183  | 8,641  | -23.8%          | 1,334 | 1,395 | 1,325 | 1,296        | -2.8%     | 14,675 | 15,001 | 12,753 | 12,231 | -16.7%    |
| (V10) (541BY) Canton       | (502) MH CLINIC IND          | 8,656      | 9,073  | 9,323  | 11,650 | 34.6%           | 1,780 | 1,922 | 1,954 | 2,211        | 24.2%     | 19,656 | 18,993 | 19,148 | 23,434 | 19.2%     |
| (V10) (541BY) Canton       | (560) SUB USE DISORDER GROUP | 187        | 420    | 259    | 1,269  | 578.6%          | 46    | 63    | 36    | 61           | 32.6%     | 73     | 221    | 158    | 566    | 678.5%    |
| (V10) (541BY) Canton       | (534) MH INTGRTD CARE IND    | 1,462      | 1,386  | 1,156  | 1,031  | -29.5%          | 717   | 724   | 653   | 583          | -18.7%    | 2,978  | 3,250  | 2,415  | 1,839  | -38.3%    |
| (V10) (541BZ) Youngstown   | (502) MH CLINIC IND          | 6,385      | 6,651  | 9,463  | 9,559  | 49.7%           | 1,603 | 1,667 | 1,852 | 1,919        | 19.7%     | 10,215 | 10,314 | 18,359 | 17,159 | 68.0%     |
| (V10) (541BZ) Youngstown   | (560) SUB USE DISORDER GROUP | 350        | 443    | 618    | 2,937  | 739.1%          | 68    | 51    | 69    | 107          | 57.4%     | 396    | 291    | 376    | 1,768  | 346.4%    |
| (V10) (541BZ) Youngstown   | (513) SUB USE DISORDER INDIV | 329        | 718    | 849    | 1,459  | 343.5%          | 185   | 306   | 263   | 310          | 67.6%     | 890    | 1,574  | 1,817  | 2,960  | 232.7%    |
| (V10) (541GB) Lorain       | (502) MH CLINIC IND          | 5,034      | 4,685  | 4,134  | 5,402  | 7.3%            | 1,357 | 1,148 | 944   | 1,111        | -18.1%    | 10,049 | 9,748  | 8,331  | 10,287 | 2.4%      |
| (V10) (541GB) Lorain       | (560) SUB USE DISORDER GROUP | 520        | 741    | 556    | 2,543  | 389.0%          | 70    | 75    | 60    | 84           | 20.0%     | 310    | 439    | 329    | 1,502  | 384.7%    |
| (V10) (541GB) Lorain       | (562) PTSD-INDIV             | 1,484      | 1,778  | 1,171  | 1,545  | 4.1%            | 329   | 363   | 287   | 358          | 8.8%      | 3,194  | 3,863  | 2,466  | 3,620  | 13.3%     |
| (V10) (541GC) Sandusky     | (502) MH CLINIC IND          | 3,436      | 4,449  | 5,052  | 5,551  | 61.6%           | 706   | 751   | 772   | 830          | 17.6%     | 6,093  | 7,698  | 8,668  | 8,665  | 42.2%     |
| (V10) (541GC) Sandusky     | (534) MH INTGRTD CARE IND    | 392        | 176    | 340    | 441    | 12.5%           | 271   | 134   | 222   | 306          | 12.9%     | 677    | 281    | 628    | 751    | 10.9%     |
| (V10) (541GC) Sandusky     | (560) SUB USE DISORDER GROUP | 73         | 92     | 214    | 294    | 302.7%          | 20    | 18    | 24    | 26           | 30.0%     | 61     | 86     | 156    | 186    | 205.9%    |
| (V10) (541GD) Mansfield    | (502) MH CLINIC IND          | 6,539      | 6,593  | 6,243  | 7,293  | 11.5%           | 1,392 | 1,466 | 1,399 | 1,449        | 4.1%      | 11,721 | 11,621 | 10,049 | 11,375 | -3.0%     |
| (V10) (541GD) Mansfield    | (562) PTSD-INDIV             | 717        | 955    | 1,100  | 1,578  | 120.1%          | 154   | 207   | 209   | 265          | 72.1%     | 1,509  | 2,109  | 2,425  | 3,345  | 121.6%    |
| (V10) (541GD) Mansfield    | (534) MH INTGRTD CARE IND    | 1,509      | 1,773  | 1,270  | 1,106  | -26.7%          | 802   | 857   | 681   | 674          | -16.0%    | 3,811  | 5,690  | 4,356  | 4,115  | 8.0%      |
| (V10) (541GE) McCafferty   | (502) MH CLINIC IND          | 2,132      | 2,149  | 2,045  | 1,834  | -14.0%          | 867   | 912   | 562   | 534          | -38.4%    | 3,750  | 4,642  | 3,621  | 3,231  | -13.8%    |
| (V10) (541GE) McCafferty   | (534) MH INTGRTD CARE IND    | 73         | 60     | 185    | 105    | 43.8%           | 66    | 39    | 95    | 64           | -3.0%     | 185    | 160    | 427    | 217    | 17.1%     |

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments

<sup>\*</sup>Includes top 3 stop codes, where applicable (some sites reported less than 3)



### **Demand** ▶ Top Mental Health Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

|                                |                              | Encounters |        |        |        | Unique Patients |       |       |       | CPT Work RVU |           |        |        |        |        |           |
|--------------------------------|------------------------------|------------|--------|--------|--------|-----------------|-------|-------|-------|--------------|-----------|--------|--------|--------|--------|-----------|
| Facility                       | Stop Code                    | FY15       | FY16   | FY17   | FY18   | 4 Yr Ch.        | FY15  | FY16  | FY17  | FY18         | 4 Yr. Ch. | FY15   | FY16   | FY17   | FY18   | 4 Yr. Ch. |
| (V10) (541GE) McCafferty       | (560) SUB USE DISORDER GROUP | N/A        | N/A    | 113    | 68     | 0.0%            | N/A   | N/A   | 13    | 8            | 0.0%      | N/A    | N/A    | 63     | 39     | 0.0%      |
| (V10) (541GF) Lake County      | (534) MH INTGRTD CARE IND    | 788        | 833    | 1,165  | 1,262  | 60.2%           | 473   | 451   | 486   | 579          | 22.4%     | 1,493  | 1,429  | 1,961  | 1,945  | 30.3%     |
| (V10) (541GF) Lake County      | (502) MH CLINIC IND          | 3,820      | 4,340  | 1,706  | 113    | -97.0%          | 837   | 940   | 593   | 105          | -87.5%    | 8,120  | 9,525  | 3,571  | 249    | -96.9%    |
| (V10) (541GF) Lake County      | (562) PTSD-INDIV             | 1,750      | 2,375  | 794    | 84     | -95.2%          | 400   | 504   | 275   | 75           | -81.3%    | 4,760  | 5,889  | 1,908  | 185    | -96.1%    |
| (V10) (541GG) Akron            | (502) MH CLINIC IND          | 9,944      | 12,575 | 14,277 | 14,613 | 47.0%           | 2,265 | 2,731 | 3,030 | 3,178        | 40.3%     | 18,789 | 24,569 | 27,863 | 28,186 | 50.0%     |
| (V10) (541GG) Akron            | (560) SUB USE DISORDER GROUP | 2,163      | 1,582  | 1,444  | 4,004  | 85.1%           | 205   | 156   | 136   | 181          | -11.7%    | 1,152  | 596    | 631    | 1,805  | 56.7%     |
| (V10) (541GG) Akron            | (534) MH INTGRTD CARE IND    | 1,913      | 2,217  | 2,543  | 2,731  | 42.8%           | 754   | 876   | 1,103 | 1,122        | 48.8%     | 3,471  | 3,542  | 3,954  | 3,521  | 1.4%      |
| (V10) (541GH) East Liverpool   | (502) MH CLINIC IND          | 2,959      | 2,581  | 3,036  | 3,595  | 21.5%           | 741   | 651   | 659   | 697          | -5.9%     | 4,727  | 3,438  | 8,021  | 9,631  | 103.8%    |
| (V10) (541GH) East Liverpool   | (562) PTSD-INDIV             | 494        | 141    | 31     | 301    | -39.1%          | 130   | 63    | 13    | 179          | 37.7%     | 1,215  | 221    | 62     | 1,414  | 16.5%     |
| (V10) (541GH) East Liverpool   | (534) MH INTGRTD CARE IND    | 193        | 106    | 207    | 250    | 29.5%           | 159   | 89    | 154   | 154          | -3.1%     | 460    | 248    | 699    | 611    | 32.9%     |
| (V10) (541GI) Warren           | (502) MH CLINIC IND          | 2,980      | 2,749  | 3,858  | 3,355  | 12.6%           | 713   | 673   | 844   | 764          | 7.2%      | 6,314  | 5,748  | 8,763  | 6,185  | -2.0%     |
| (V10) (541GI) Warren           | (562) PTSD-INDIV             | 170        | 868    | 777    | 484    | 184.7%          | 110   | 226   | 185   | 169          | 53.6%     | 315    | 817    | 1,682  | 812    | 158.0%    |
| (V10) (541GI) Warren           | (534) MH INTGRTD CARE IND    | 630        | 607    | 322    | 276    | -56.2%          | 270   | 297   | 197   | 172          | -36.3%    | 1,724  | 1,496  | 727    | 558    | -67.6%    |
| (V10) (541GJ) New Philadelphia | (502) MH CLINIC IND          | 3,873      | 4,384  | 4,100  | 3,345  | -13.6%          | 858   | 977   | 988   | 885          | 3.1%      | 11,032 | 12,449 | 11,649 | 7,907  | -28.3%    |
| (V10) (541GJ) New Philadelphia | (562) PTSD-INDIV             | N/A        | 109    | 513    | 604    | 0.0%            | N/A   | 46    | 96    | 99           | 0.0%      | N/A    | 304    | 1,339  | 1,414  | 0.0%      |
| (V10) (541GJ) New Philadelphia | (534) MH INTGRTD CARE IND    | 359        | 402    | 524    | 567    | 57.9%           | 204   | 232   | 262   | 316          | 54.9%     | 1,040  | 1,820  | 2,612  | 1,416  | 36.2%     |
| (V10) (541GK) Ravenna          | (502) MH CLINIC IND          | 3,121      | 3,249  | 3,737  | 4,406  | 41.2%           | 768   | 796   | 768   | 889          | 15.8%     | 7,692  | 8,715  | 9,226  | 10,566 | 37.4%     |
| (V10) (541GK) Ravenna          | (534) MH INTGRTD CARE IND    | 137        | 105    | 194    | 276    | 101.5%          | 114   | 92    | 168   | 218          | 91.2%     | 457    | 381    | 544    | 658    | 43.9%     |
| (V10) (541GK) Ravenna          | (560) SUB USE DISORDER GROUP | 93         | 151    | 179    | 252    | 171.0%          | 20    | 16    | 19    | 27           | 35.0%     | 57     | 91     | 105    | 150    | 164.7%    |
| (V10) (541GL) Parma            | (502) MH CLINIC IND          | 15,513     | 16,095 | 17,039 | 17,096 | 10.2%           | 2,964 | 3,383 | 3,385 | 3,379        | 14.0%     | 32,348 | 32,554 | 33,577 | 33,246 | 2.8%      |

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments

<sup>\*</sup>Includes top 3 stop codes, where applicable (some sites reported less than 3)

## **Demand** ▶ Top Mental Health Stop Code\* Trends FY15-FY18 — Cleveland-Ohio, cont.

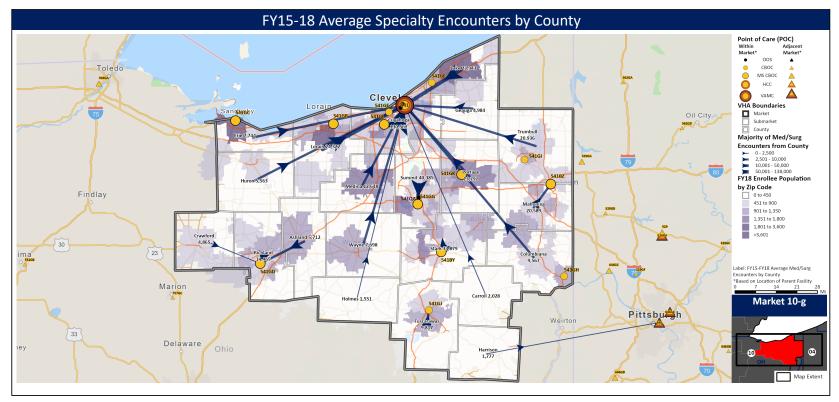
|  |                              |       | ا     | Encounter | S     |          |      | Uni  | ique Patie | nts  |           | CPT Work RVU |       |       | VU    |           |
|--|------------------------------|-------|-------|-----------|-------|----------|------|------|------------|------|-----------|--------------|-------|-------|-------|-----------|
| Facility                                   | Stop Code                    | FY15  | FY16  | FY17      | FY18  | 4 Yr Ch. | FY15 | FY16 | FY17       | FY18 | 4 Yr. Ch. | FY15         | FY16  | FY17  | FY18  | 4 Yr. Ch. |
| (V10) (541GL) Parma                        | (560) SUB USE DISORDER GROUP | 1,489 | 1,605 | 778       | 4,016 | 169.7%   | 86   | 117  | 79         | 141  | 64.0%     | 589          | 814   | 352   | 1,759 | 198.8%    |
| (V10) (541GL) Parma                        | (550) MH CLINIC GROUP        | 3,801 | 3,753 | 3,611     | 2,932 | -22.9%   | 257  | 270  | 270        | 271  | 5.4%      | 1,434        | 1,396 | 1,474 | 963   | -32.8%    |
| (V10) (541GN) State Street-<br>Painesville | (502) MH CLINIC IND          | N/A   | N/A   | 1,658     | 3,139 | 0.0%     | N/A  | N/A  | 586        | 780  | 0.0%      | N/A          | N/A   | 3,306 | 6,303 | 0.0%      |
| (V10) (541GN) State Street-<br>Painesville | (562) PTSD-INDIV             | N/A   | N/A   | 825       | 1,544 | 0.0%     | N/A  | N/A  | 247        | 347  | 0.0%      | N/A          | N/A   | 1,819 | 3,394 | 0.0%      |
| (V10) (541GN) State Street-                | (534) MH INTGRTD CARE IND    | N/A   | N/A   | 203       | 401   | 0.0%     | N/A  | N/A  | 135        | 192  | 0.0%      | N/A          | N/A   | 318   | 596   | 0.0%      |

 $Note: Data\ limited\ to\ workload\ from\ patients\ originating\ from\ within\ the\ counties\ of\ Phase\ Two\ VISNs\ in\ the\ Market\ Assessments$ 

<sup>\*</sup>Includes top 3 stop codes, where applicable (some sites reported less than 3)









## **Demand** ► Specialty Encounters — FY15-18, cont.

| County        | FY15-18 Avg Encounters | FY18 Encounters | Most Commonly Used Facility | % of Encounters |
|---------------|------------------------|-----------------|-----------------------------|-----------------|
| Ashland,OH    | 5,713                  | 6,047           | (V10) (541GD) Mansfield     | 46.2%           |
| Carroll,OH    | 2,028                  | 2,086           | (V10) (541) Cleveland-Ohio  | 41.9%           |
| Columbiana,OH | 9,567                  | 10,065          | (V10) (541) Cleveland-Ohio  | 38.4%           |
| Crawford,OH   | 4,865                  | 4,962           | (V10) (541GD) Mansfield     | 38.7%           |
| Cuyahoga,OH   | 130,562                | 140,318         | (V10) (541) Cleveland-Ohio  | 74.9%           |
| Geauga,OH     | 4,985                  | 5,813           | (V10) (541) Cleveland-Ohio  | 66.2%           |
| Erie,OH       | 7,745                  | 7,876           | (V10) (541) Cleveland-Ohio  | 49.0%           |
| Harrison,OH   | 1,777                  | 1,708           | (V04) (646) Pittsburgh      | 40.9%           |
| Lorain,OH     | 24,323                 | 24,518          | (V10) (541) Cleveland-Ohio  | 47.1%           |
| Holmes,OH     | 1,551                  | 1,710           | (V10) (541) Cleveland-Ohio  | 42.9%           |
| Huron,OH      | 5,563                  | 5,970           | (V10) (541) Cleveland-Ohio  | 45.3%           |
| Mahoning,OH   | 20,589                 | 21,477          | (V10) (541BZ) Youngstown    | 48.2%           |
| Lake,OH       | 23,943                 | 26,185          | (V10) (541) Cleveland-Ohio  | 71.9%           |
| Portage,OH    | 13,797                 | 15,002          | (V10) (541) Cleveland-Ohio  | 43.9%           |
| Medina,OH     | 12,648                 | 14,177          | (V10) (541) Cleveland-Ohio  | 43.0%           |
| Richland,OH   | 14,469                 | 14,751          | (V10) (541GD) Mansfield     | 51.7%           |
| Stark,OH      | 33,879                 | 36,990          | (V10) (541BY) Canton        | 50.6%           |
| Summit,OH     | 40,385                 | 43,821          | (V10) (541GG) Akron         | 49.0%           |



## **Demand** ► Specialty Encounters — FY15-18, cont.

| County        | FY15-18 Avg Encounters | FY18 Encounters | Most Commonly Used Facility    | % of Encounters |
|---------------|------------------------|-----------------|--------------------------------|-----------------|
| Trumbull,OH   | 20,936                 | 22,220          | (V10) (541) Cleveland-Ohio     | 42.8%           |
| Tuscarawas,OH | 9,817                  | 10,572          | (V10) (541GJ) New Philadelphia | 41.0%           |
| Wayne,OH      | 7,699                  | 7,931           | (V10) (541) Cleveland-Ohio     | 38.6%           |
| Total         | 396,839                | 424,199         |                                |                 |



|                                   | Encounters* |         |         |         | 4 Yr. Ch. |         | CPT Wo  | rk RVU  |         | 4 Yr. Ch. |
|-----------------------------------|-------------|---------|---------|---------|-----------|---------|---------|---------|---------|-----------|
| Specialty Title                   | FY15        | FY16    | FY17    | FY18    |           | FY15    | FY16    | FY17    | FY18    |           |
| (V10) (541) Cleveland-Ohio        | 203,210     | 214,815 | 216,921 | 225,487 | 11.0%     | 270,683 | 288,183 | 286,528 | 295,027 | 9.0%      |
| Allergy and Immunology            | 1,832       | 2,025   | 1,938   | 2,262   | 23.5%     | 1,347   | 1,334   | 1,113   | 1,320   | -2.0%     |
| Audiology & Speech Pathology      | 16,830      | 16,937  | 15,475  | 13,977  | -17.0%    | 11,235  | 12,956  | 11,069  | 9,280   | -17.4%    |
| Cardiology                        | 11,233      | 13,003  | 14,302  | 15,117  | 34.6%     | 14,959  | 15,797  | 18,863  | 20,329  | 35.9%     |
| Critical Care / Pulmonary Disease | 5,475       | 5,549   | 6,016   | 6,367   | 16.3%     | 7,887   | 7,927   | 8,532   | 8,718   | 10.5%     |
| Dermatology                       | 11,673      | 12,676  | 13,125  | 14,788  | 26.7%     | 17,242  | 18,362  | 21,391  | 22,215  | 28.8%     |
| Endocrinology                     | 3,181       | 3,472   | 3,682   | 4,028   | 26.6%     | 4,571   | 5,080   | 4,917   | 6,145   | 34.5%     |
| Gastroenterology                  | 8,574       | 10,052  | 10,137  | 10,877  | 26.9%     | 14,197  | 15,168  | 15,334  | 17,138  | 20.7%     |
| Geriatric Medicine                | 11          | 61      | 54      | 36      | 227.3%    | 53      | 152     | 63      | 98      | 84.6%     |
| Hematology-Oncology               | 18,186      | 18,324  | 15,628  | 16,351  | -10.1%    | 29,983  | 34,860  | 26,489  | 23,847  | -20.5%    |
| Infectious Disease                | 1,838       | 2,179   | 2,019   | 1,951   | 6.1%      | 1,890   | 2,177   | 2,081   | 2,079   | 10.0%     |
| Internal Medicine                 | 4,487       | 3,588   | 2,770   | 4,921   | 9.7%      | 1,235   | 964     | 820     | 2,987   | 141.9%    |
| Nephrology                        | 2,704       | 2,856   | 3,496   | 3,611   | 33.5%     | 4,204   | 4,524   | 5,198   | 5,283   | 25.7%     |
| Neurological Surgery              | N/A         | 139     | 731     | 973     | N/A       | N/A     | 259     | 1,023   | 1,336   | N/A       |
| Neurology                         | 4,631       | 5,329   | 5,445   | 5,882   | 27.0%     | 8,709   | 11,236  | 11,419  | 12,022  | 38.0%     |
| Nutrition                         | 3,997       | 3,802   | 3,652   | 3,493   | -12.6%    | 1,323   | 3,447   | 3,127   | 3,039   | 129.7%    |
| Obstetrics & Gynecology           | 784         | 1,151   | 1,150   | 2,102   | 168.1%    | 1,621   | 1,916   | 1,900   | 2,541   | 56.7%     |
| Ophthalmology                     | 8,062       | 8,199   | 8,920   | 9,123   | 13.2%     | 13,007  | 11,491  | 14,153  | 14,853  | 14.2%     |
| Optometry                         | 9,461       | 12,213  | 12,555  | 12,909  | 36.4%     | 18,285  | 22,073  | 22,754  | 23,752  | 29.9%     |
| Orthopaedic Surgery               | 7,629       | 6,626   | 6,679   | 6,908   | -9.5%     | 7,222   | 6,859   | 6,519   | 6,464   | -10.5%    |
| Otolaryngology                    | 6,599       | 6,824   | 7,049   | 7,275   | 10.2%     | 9,942   | 11,023  | 11,856  | 12,826  | 29.0%     |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments



|                                    | Encounters* |        |        |        | 4 Yr. Ch. |        | CPT Wor | k RVU  |        | 4 Yr. Ch. |
|------------------------------------|-------------|--------|--------|--------|-----------|--------|---------|--------|--------|-----------|
| Specialty Title                    | FY15        | FY16   | FY17   | FY18   |           | FY15   | FY16    | FY17   | FY18   |           |
| Pain Medicine                      | 13,509      | 14,238 | 14,011 | 15,222 | 12.7%     | 21,775 | 21,508  | 19,979 | 21,489 | -1.3%     |
| Physical Medicine & Rehabilitation | 18,215      | 18,637 | 19,674 | 19,897 | 9.2%      | 22,643 | 23,534  | 23,756 | 25,677 | 13.4%     |
| Plastic Surgery                    | 1,814       | 1,718  | 1,943  | 2,396  | 32.1%     | 1,952  | 1,992   | 1,811  | 2,095  | 7.3%      |
| Podiatry                           | 11,209      | 13,303 | 14,933 | 13,152 | 17.3%     | 11,445 | 12,782  | 14,065 | 12,557 | 9.7%      |
| Polytrauma                         | 2,117       | 2,559  | 2,017  | 2,030  | -4.1%     | 3,736  | 4,543   | 3,499  | 3,193  | -14.5%    |
| Rheumatology                       | 3,457       | 3,580  | 3,364  | 3,463  | 0.2%      | 6,138  | 5,811   | 4,949  | 4,490  | -26.9%    |
| SCI                                | 7,478       | 6,948  | 7,323  | 7,391  | -1.2%     | 9,367  | 8,298   | 8,723  | 8,565  | -8.6%     |
| Surgery                            | 4,704       | 4,494  | 4,164  | 4,364  | -7.2%     | 5,981  | 5,301   | 4,316  | 4,506  | -24.7%    |
| Thoracic Surgery                   | 1,096       | 1,117  | 1,072  | 702    | -35.9%    | 1,130  | 821     | 756    | 505    | -55.3%    |
| Urology                            | 10,033      | 10,804 | 11,428 | 11,623 | 15.8%     | 15,069 | 13,984  | 13,508 | 12,923 | -14.2%    |
| Vascular Surgery                   | 2,391       | 2,412  | 2,169  | 2,296  | -4.0%     | 2,535  | 2,003   | 2,545  | 2,757  | 8.8%      |
| (V10) (541BY) Canton               | 13,911      | 21,960 | 24,535 | 25,585 | 83.9%     | 17,043 | 26,014  | 27,631 | 28,167 | 65.3%     |
| Audiology & Speech Pathology       | 853         | 2,117  | 2,990  | 2,785  | 226.5%    | 567    | 1,489   | 1,997  | 1,407  | 148.1%    |
| Critical Care / Pulmonary Disease  | 33          | 158    | 174    | 180    | 445.5%    | 6      | 26      | 31     | 33     | 434.0%    |
| Dermatology                        | 193         | 212    | 271    | 386    | 100.0%    | 20     | 12      | 5      | 3      | -85.6%    |
| Endocrinology                      | 446         | 1,460  | 1,306  | 1,243  | 178.7%    | 394    | 1,312   | 1,188  | 1,128  | 186.3%    |
| Internal Medicine                  | 113         | 223    | 98     | 203    | 79.6%     | 119    | 263     | 105    | 153    | 28.7%     |
| Nutrition                          | 1,032       | 1,098  | 1,152  | 1,276  | 23.6%     | 468    | 1,384   | 1,093  | 1,355  | 189.9%    |
| Optometry                          | 5,105       | 5,458  | 5,465  | 6,101  | 19.5%     | 8,919  | 10,274  | 9,913  | 11,148 | 25.0%     |
| Pain Medicine                      | 471         | 463    | 429    | 317    | -32.7%    | 94     | 20      | 14     | 22     | -76.2%    |
| Physical Medicine & Rehabilitation | 493         | 4,880  | 6,119  | 5,832  | 1083.0%   | 509    | 4,341   | 4,763  | 4,781  | 839.8%    |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments



|                                    |        | Encoun | iters* |        | 4 Yr. Ch. |        | 4 Yr. Ch. |        |        |         |
|------------------------------------|--------|--------|--------|--------|-----------|--------|-----------|--------|--------|---------|
| Specialty Title                    | FY15   | FY16   | FY17   | FY18   |           | FY15   | FY16      | FY17   | FY18   |         |
| Podiatry                           | 5,158  | 5,678  | 6,120  | 6,801  | 31.9%     | 5,947  | 6,693     | 8,214  | 7,931  | 33.3%   |
| Polytrauma                         | 14     | 29     | 37     | 37     | 164.3%    | 0      | 5         | 6      | 0      | N/A     |
| Rheumatology                       | N/A    | 110    | 168    | 122    | N/A       | N/A    | 180       | 274    | 204    | N/A     |
| Urology                            | N/A    | 74     | 206    | 302    | N/A       | N/A    | 15        | 27     | 2      | N/A     |
| (V10) (541BZ) Youngstown           | 15,670 | 15,936 | 16,992 | 17,977 | 14.7%     | 19,136 | 19,704    | 21,126 | 22,254 | 16.3%   |
| Audiology & Speech Pathology       | 614    | 269    | 143    | 196    | -68.1%    | 319    | 96        | 0      | 0      | -100.0% |
| Critical Care / Pulmonary Disease  | 18     | 87     | 85     | 83     | 361.1%    | 2      | 17        | 19     | 16     | 586.3%  |
| Dermatology                        | 231    | 224    | 132    | 245    | 6.1%      | 33     | 6         | 1      | 2      | -93.0%  |
| Endocrinology                      | 252    | 604    | 692    | 579    | 129.8%    | 333    | 887       | 1,017  | 858    | 157.2%  |
| Internal Medicine                  | 131    | 30     | N/A    | N/A    | -100.0%   | 228    | 58        | N/A    | N/A    | -100.0% |
| Nutrition                          | 634    | 691    | 665    | 671    | 5.8%      | 219    | 163       | 40     | 130    | -40.5%  |
| Optometry                          | 4,329  | 4,301  | 4,396  | 4,477  | 3.4%      | 7,397  | 7,363     | 7,528  | 7,414  | 0.2%    |
| Pain Medicine                      | 379    | 390    | 432    | 397    | 4.7%      | 37     | 33        | 35     | 10     | -71.6%  |
| Physical Medicine & Rehabilitation | 3,885  | 4,540  | 4,647  | 4,720  | 21.5%     | 3,728  | 4,317     | 4,180  | 4,534  | 21.6%   |
| Podiatry                           | 5,174  | 4,628  | 5,505  | 6,276  | 21.3%     | 6,818  | 6,533     | 8,012  | 9,085  | 33.2%   |
| Polytrauma                         | 23     | 31     | 20     | 14     | -39.1%    | 19     | 21        | 17     | 0      | -100.0% |
| Rheumatology                       | N/A    | 69     | 122    | 132    | N/A       | N/A    | 117       | 199    | 201    | N/A     |
| Urology                            | N/A    | 72     | 153    | 187    | N/A       | N/A    | 94        | 79     | 4      | N/A     |
| (V10) (541GB) Lorain               | 9,340  | 10,399 | 10,249 | 9,273  | -0.7%     | 12,740 | 14,471    | 13,742 | 12,146 | -4.7%   |
| Audiology & Speech Pathology       | 266    | 28     | N/A    | N/A    | -100.0%   | 139    | 25        | N/A    | N/A    | -100.0% |
| Critical Care / Pulmonary Disease  | 20     | 83     | 75     | 72     | 260.0%    | 5      | 15        | 17     | 14     | 199.0%  |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

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|                                    |        | Encoun | ters*  |        | 4 Yr. Ch. | CPT Work RVU |        |        |        | 4 Yr. Ch. |
|------------------------------------|--------|--------|--------|--------|-----------|--------------|--------|--------|--------|-----------|
| Specialty Title                    | FY15   | FY16   | FY17   | FY18   |           | FY15         | FY16   | FY17   | FY18   |           |
| Dermatology                        | 65     | 74     | 76     | 146    | 124.6%    | 2            | 1      | 0      | 2      | -22.7%    |
| Endocrinology                      | 255    | 1,039  | 924    | 164    | -35.7%    | 508          | 2,262  | 1,836  | 269    | -47.0%    |
| Internal Medicine                  | 151    | 402    | 386    | 129    | -14.6%    | 123          | 280    | 281    | 91     | -26.5%    |
| Nephrology                         | 26     | 47     | 40     | N/A    | -100.0%   | 11           | 5      | 6      | N/A    | -100.0%   |
| Nutrition                          | 451    | 513    | 531    | 576    | 27.7%     | 188          | 258    | 177    | 20     | -89.1%    |
| Optometry                          | 3,601  | 3,684  | 3,648  | 3,796  | 5.4%      | 6,518        | 6,481  | 6,471  | 6,876  | 5.5%      |
| Physical Medicine & Rehabilitation | 1,741  | 1,605  | 1,628  | 1,547  | -11.1%    | 2,037        | 1,874  | 1,827  | 1,901  | -6.7%     |
| Podiatry                           | 2,764  | 2,885  | 2,918  | 2,795  | 1.1%      | 3,209        | 3,235  | 3,117  | 2,973  | -7.4%     |
| Urology                            | N/A    | 39     | 23     | 48     | N/A       | N/A          | 35     | 11     | 1      | N/A       |
| (V10) (541GC) Sandusky             | 4,986  | 6,087  | 5,454  | 6,028  | 20.9%     | 7,265        | 8,706  | 7,714  | 8,510  | 17.1%     |
| Audiology & Speech Pathology       | 294    | 60     | N/A    | N/A    | -100.0%   | 228          | 54     | N/A    | N/A    | -100.0%   |
| Critical Care / Pulmonary Disease  | 2      | 45     | 63     | 50     | 2400.0%   | 1            | 12     | 15     | 8      | 1383.9%   |
| Dermatology                        | 43     | 59     | 42     | 57     | 32.6%     | 5            | 1      | 0      | 0      | -96.9%    |
| Endocrinology                      | 262    | 917    | 969    | 912    | 248.1%    | 229          | 813    | 808    | 603    | 163.9%    |
| Internal Medicine                  | 48     | 116    | 99     | 39     | -18.8%    | 50           | 102    | 85     | 43     | -13.6%    |
| Nutrition                          | 177    | 183    | 144    | 150    | -15.3%    | 33           | 44     | 46     | 39     | 17.3%     |
| Optometry                          | 2,039  | 2,129  | 2,018  | 2,242  | 10.0%     | 3,948        | 4,055  | 3,701  | 4,077  | 3.3%      |
| Physical Medicine & Rehabilitation | N/A    | N/A    | 27     | 5      | N/A       | N/A          | N/A    | 0      | 1      | N/A       |
| Podiatry                           | 2,121  | 2,547  | 2,052  | 2,573  | 21.3%     | 2,771        | 3,604  | 3,059  | 3,738  | 34.9%     |
| Urology                            | N/A    | 31     | 40     | N/A    | N/A       | N/A          | 22     | 0      | N/A    | N/A       |
| (V10) (541GD) Mansfield            | 14,462 | 15,807 | 14,816 | 15,034 | 4.0%      | 17,060       | 18,947 | 18,244 | 19,177 | 12.4%     |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

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|                                    |       | ters*          |       | 4 Yr. Ch. | CPT Work RVU |       |        |       | 4 Yr. Ch. |         |
|------------------------------------|-------|----------------|-------|-----------|--------------|-------|--------|-------|-----------|---------|
| Specialty Title                    | FY15  | FY16           | FY17  | FY18      |              | FY15  | FY16   | FY17  | FY18      |         |
| Audiology & Speech Pathology       | 613   | 306            | 142   | 169       | -72.4%       | 374   | 82     | 0     | 1         | -99.8%  |
| Critical Care / Pulmonary Disease  | 24    | 134            | 161   | 134       | 458.3%       | 4     | 23     | 26    | 22        | 400.2%  |
| Dermatology                        | 31    | 14             | 38    | 111       | 258.1%       | 4     | 3      | 1     | 1         | -77.5%  |
| Endocrinology                      | 32    | 17             | 12    | N/A       | -100.0%      | 2     | 0      | 2     | N/A       | -100.0% |
| Internal Medicine                  | 167   | 645            | 500   | 19        | -88.6%       | 296   | 1,113  | 1,014 | 25        | -91.5%  |
| Nephrology                         | 24    | 23             | 32    | 1         | -95.8%       | 59    | 56     | 65    | 0         | -100.0% |
| Nutrition                          | 950   | 980            | 990   | 858       | -9.7%        | 270   | 299    | 246   | 464       | 72.0%   |
| Optometry                          | 3,839 | 4,729          | 4,495 | 4,651     | 21.2%        | 6,000 | 7,486  | 7,175 | 7,467     | 24.5%   |
| Pain Medicine                      | 237   | 200            | 164   | 152       | -35.9%       | 11    | 8      | 1     | 6         | -43.1%  |
| Physical Medicine & Rehabilitation | 3,291 | 3,527          | 3,270 | 3,716     | 12.9%        | 3,719 | 3,504  | 3,089 | 3,862     | 3.9%    |
| Podiatry                           | 5,238 | 5,148          | 4,905 | 5,215     | -0.4%        | 6,315 | 6,323  | 6,609 | 7,327     | 16.0%   |
| Polytrauma                         | 16    | 19             | 25    | 8         | -50.0%       | 5     | 8      | 0     | 0         | -100.0% |
| Urology                            | N/A   | 65             | 82    | N/A       | N/A          | N/A   | 41     | 15    | N/A       | N/A     |
| (V10) (541GE) McCafferty           | 282   | 1,149          | 1,342 | 1,309     | 364.2%       | 93    | 1,719  | 1,905 | 1,876     | 1924.1% |
| Endocrinology                      | 63    | 5              | 1     | N/A       | -100.0%      | 14    | 0      | 1     | N/A       | -100.0% |
| Internal Medicine                  | 41    | 184            | 200   | 169       | 312.2%       | 7     | 39     | 44    | 42        | 516.9%  |
| Nutrition                          | 156   | 153            | 143   | 134       | -14.1%       | 20    | 38     | 36    | 23        | 17.1%   |
| Podiatry                           | 22    | 807            | 998   | 1,006     | 4472.7%      | 51    | 1,642  | 1,824 | 1,811     | 3418.1% |
| (V10) (541GF) Lake County          | 5,512 | 8 <i>,</i> 256 | 4,992 | 2,224     | -59.7%       | 6,059 | 10,437 | 5,887 | 1,151     | -81.0%  |
| Critical Care / Pulmonary Disease  | 21    | 89             | 91    | 100       | 376.2%       | 6     | 37     | 39    | 42        | 580.2%  |
| Dermatology                        | 132   | 121            | 57    | 14        | -89.4%       | 11    | 2      | 2     | 5         | -54.4%  |

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|                                    |        | Encounters* |        |        |         | CPT Work RVU |        |        |        | 4 Yr. Ch. |
|------------------------------------|--------|-------------|--------|--------|---------|--------------|--------|--------|--------|-----------|
| Specialty Title                    | FY15   | FY16        | FY17   | FY18   |         | FY15         | FY16   | FY17   | FY18   |           |
| Endocrinology                      | N/A    | N/A         | N/A    | 47     | N/A     | N/A          | N/A    | N/A    | 30     | N/A       |
| Internal Medicine                  | 179    | 573         | 597    | 481    | 168.7%  | 303          | 988    | 998    | 764    | 151.7%    |
| Nutrition                          | 1,351  | 1,333       | 1,283  | 1,383  | 2.4%    | 138          | 151    | 142    | 28     | -79.8%    |
| Optometry                          | 1,383  | 3,261       | 1,624  | 42     | -97.0%  | 3,343        | 6,712  | 3,080  | 71     | -97.9%    |
| Physical Medicine & Rehabilitation | N/A    | N/A         | N/A    | 35     | N/A     | N/A          | N/A    | N/A    | 51     | N/A       |
| Podiatry                           | 2,446  | 2,859       | 1,333  | 122    | -95.0%  | 2,257        | 2,526  | 1,622  | 161    | -92.9%    |
| Urology                            | N/A    | 20          | 7      | N/A    | N/A     | N/A          | 21     | 3      | N/A    | N/A       |
| (V10) (541GG) Akron                | 28,578 | 27,353      | 28,635 | 32,899 | 15.1%   | 31,958       | 30,276 | 31,999 | 34,808 | 8.9%      |
| Audiology & Speech Pathology       | 4,018  | 3,450       | 3,487  | 6,186  | 54.0%   | 2,980        | 2,365  | 1,872  | 2,263  | -24.1%    |
| Critical Care / Pulmonary Disease  | 32     | 122         | 144    | 147    | 359.4%  | 4            | 32     | 49     | 58     | 1396.1%   |
| Dermatology                        | 215    | 247         | 244    | 252    | 17.2%   | 16           | 6      | 1      | 3      | -83.8%    |
| Endocrinology                      | 104    | 1,473       | 1,469  | 1,519  | 1360.6% | 100          | 1,398  | 1,330  | 1,389  | 1287.8%   |
| Internal Medicine                  | 382    | 477         | 754    | 526    | 37.7%   | 716          | 730    | 1,220  | 823    | 14.8%     |
| Nutrition                          | 995    | 1,150       | 1,114  | 941    | -5.4%   | 1,373        | 1,424  | 758    | 209    | -84.8%    |
| Optometry                          | 5,084  | 4,759       | 5,626  | 6,683  | 31.5%   | 7,982        | 7,672  | 9,656  | 11,560 | 44.8%     |
| Pain Medicine                      | 541    | 482         | 495    | 468    | -13.5%  | 38           | 22     | 12     | 20     | -46.2%    |
| Physical Medicine & Rehabilitation | 11,040 | 8,651       | 8,178  | 8,967  | -18.8%  | 10,030       | 7,684  | 6,948  | 8,026  | -20.0%    |
| Podiatry                           | 5,211  | 5,746       | 5,705  | 5,800  | 11.3%   | 6,802        | 7,621  | 7,855  | 8,126  | 19.5%     |
| Polytrauma                         | 12     | 18          | 8      | 24     | 100.0%  | 13           | 4      | 0      | 0      | -100.0%   |
| Rheumatology                       | 944    | 699         | 1,264  | 1,386  | 46.8%   | 1,903        | 1,305  | 2,290  | 2,332  | 22.5%     |
| Urology                            | N/A    | 79          | 147    | N/A    | N/A     | N/A          | 13     | 8      | N/A    | N/A       |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments



|                                    |       | Encoun | ters* |       | 4 Yr. Ch. | CPT Work RVU |       |       |       | 4 Yr. Ch. |
|------------------------------------|-------|--------|-------|-------|-----------|--------------|-------|-------|-------|-----------|
| Specialty Title                    | FY15  | FY16   | FY17  | FY18  |           | FY15         | FY16  | FY17  | FY18  |           |
| (V10) (541GH) East Liverpool       | 2,549 | 2,997  | 3,125 | 2,891 | 13.4%     | 3,710        | 4,662 | 4,786 | 4,515 | 21.7%     |
| Audiology & Speech Pathology       | 265   | 75     | N/A   | N/A   | -100.0%   | 224          | 57    | N/A   | N/A   | -100.0%   |
| Critical Care / Pulmonary Disease  | 7     | 48     | 45    | 49    | 600.0%    | 1            | 9     | 8     | 13    | 938.9%    |
| Dermatology                        | 25    | 15     | 31    | 147   | 488.0%    | 1            | 1     | 0     | 2     | 61.0%     |
| Endocrinology                      | N/A   | 5      | 23    | N/A   | N/A       | N/A          | 9     | 38    | N/A   | N/A       |
| Internal Medicine                  | 34    | 28     | N/A   | N/A   | -100.0%   | 37           | 32    | N/A   | N/A   | -100.0%   |
| Nutrition                          | 245   | 202    | 248   | 223   | -9.0%     | 298          | 207   | 277   | 260   | -12.7%    |
| Optometry                          | 743   | 1,380  | 1,537 | 1,364 | 83.6%     | 1,547        | 2,624 | 2,768 | 2,535 | 63.9%     |
| Physical Medicine & Rehabilitation | 69    | 87     | 128   | 47    | -31.9%    | 4            | 0     | 0     | 11    | 157.1%    |
| Podiatry                           | 1,161 | 1,141  | 1,105 | 1,061 | -8.6%     | 1,598        | 1,719 | 1,688 | 1,694 | 6.0%      |
| Urology                            | N/A   | 16     | 8     | N/A   | N/A       | N/A          | 5     | 6     | N/A   | N/A       |
| (V10) (541GI) Warren               | 4,672 | 5,985  | 6,223 | 5,610 | 20.1%     | 5,579        | 6,981 | 7,357 | 6,900 | 23.7%     |
| Audiology & Speech Pathology       | 165   | 94     | N/A   | N/A   | -100.0%   | 161          | 89    | N/A   | N/A   | -100.0%   |
| Critical Care / Pulmonary Disease  | 16    | 43     | 40    | 52    | 225.0%    | 5            | 14    | 15    | 14    | 181.4%    |
| Dermatology                        | 67    | 54     | 16    | 62    | -7.5%     | 14           | 9     | 2     | 1     | -89.7%    |
| Internal Medicine                  | 96    | 852    | 914   | 387   | 303.1%    | 170          | 572   | 549   | 206   | 21.2%     |
| Nutrition                          | 705   | 734    | 656   | 568   | -19.4%    | 157          | 216   | 179   | 100   | -36.2%    |
| Optometry                          | 1,309 | 1,739  | 1,742 | 1,644 | 25.6%     | 2,421        | 3,226 | 2,842 | 2,514 | 3.8%      |
| Podiatry                           | 2,314 | 2,469  | 2,855 | 2,897 | 25.2%     | 2,651        | 2,854 | 3,771 | 4,065 | 53.4%     |
| (V10) (541GJ) New Philadelphia     | 5,544 | 5,331  | 5,354 | 5,788 | 4.4%      | 8,639        | 8,468 | 8,733 | 8,955 | 3.7%      |
| Audiology & Speech Pathology       | 357   | 96     | N/A   | N/A   | -100.0%   | 300          | 73    | N/A   | N/A   | -100.0%   |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

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|                                   |        | ters*  |        | 4 Yr. Ch. | CPT Work RVU |        |        |        | 4 Yr. Ch. |         |
|-----------------------------------|--------|--------|--------|-----------|--------------|--------|--------|--------|-----------|---------|
| Specialty Title                   | FY15   | FY16   | FY17   | FY18      |              | FY15   | FY16   | FY17   | FY18      |         |
| Critical Care / Pulmonary Disease | 4      | 57     | 62     | 65        | 1525.0%      | 0      | 5      | 5      | 3         | 1394.4% |
| Dermatology                       | 108    | 135    | 120    | 170       | 57.4%        | 6      | 1      | 4      | 1         | -90.2%  |
| Endocrinology                     | N/A    | 29     | 17     | N/A       | N/A          | N/A    | 10     | 0      | N/A       | N/A     |
| Internal Medicine                 | 27     | 87     | 42     | N/A       | -100.0%      | 40     | 140    | 62     | N/A       | -100.0% |
| Nutrition                         | 496    | 451    | 421    | 426       | -14.1%       | 187    | 134    | 147    | 59        | -68.6%  |
| Optometry                         | 2,025  | 2,073  | 2,225  | 2,359     | 16.5%        | 3,809  | 4,053  | 4,144  | 4,335     | 13.8%   |
| Podiatry                          | 2,527  | 2,366  | 2,450  | 2,768     | 9.5%         | 4,297  | 4,038  | 4,371  | 4,558     | 6.1%    |
| Urology                           | N/A    | 37     | 17     | N/A       | N/A          | N/A    | 13     | 0      | N/A       | N/A     |
| (V10) (541GK) Ravenna             | 3,882  | 4,413  | 4,679  | 5,251     | 35.3%        | 5,143  | 5,624  | 5,006  | 5,358     | 4.2%    |
| Audiology & Speech Pathology      | 378    | 81     | N/A    | N/A       | -100.0%      | 324    | 68     | N/A    | N/A       | -100.0% |
| Critical Care / Pulmonary Disease | 25     | 71     | 60     | 51        | 104.0%       | 4      | 13     | 11     | 8         | 106.5%  |
| Dermatology                       | 50     | 128    | 127    | 118       | 136.0%       | 9      | 23     | 18     | 2         | -73.3%  |
| Internal Medicine                 | N/A    | 473    | 602    | 533       | N/A          | N/A    | 188    | 279    | 135       | N/A     |
| Nutrition                         | 269    | 376    | 342    | 364       | 35.3%        | 341    | 426    | 360    | 401       | 17.7%   |
| Optometry                         | 1,582  | 1,588  | 1,389  | 1,519     | -4.0%        | 2,606  | 2,928  | 1,953  | 2,037     | -21.8%  |
| Podiatry                          | 1,578  | 1,696  | 2,159  | 2,666     | 68.9%        | 1,860  | 1,978  | 2,385  | 2,776     | 49.2%   |
| (V10) (541GL) Parma               | 46,681 | 51,408 | 53,524 | 53,962    | 15.6%        | 44,362 | 48,498 | 52,772 | 55,537    | 25.2%   |
| Audiology & Speech Pathology      | 4,689  | 5,044  | 5,564  | 8,177     | 74.4%        | 3,384  | 3,664  | 3,395  | 2,718     | -19.7%  |
| Cardiology                        | 5,768  | 5,859  | 5,949  | 5,910     | 2.5%         | 8,364  | 7,851  | 7,249  | 7,235     | -13.5%  |
| Critical Care / Pulmonary Disease | 801    | 748    | 830    | 1,033     | 29.0%        | 1,466  | 1,418  | 1,135  | 1,280     | -12.7%  |
| Dermatology                       | 231    | 241    | 322    | 337       | 45.9%        | 29     | 6      | 5      | 1         | -95.0%  |

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## **Demand** Specialty Care Stop Code Trends FY15-18, cont.

|                                    |        | Encounters* |        |       |        |       |        | 4 Yr. Ch. |        |        |
|------------------------------------|--------|-------------|--------|-------|--------|-------|--------|-----------|--------|--------|
| Specialty Title                    | FY15   | FY16        | FY17   | FY18  |        | FY15  | FY16   | FY17      | FY18   |        |
| Endocrinology                      | 1,347  | 2,030       | 2,222  | 1,339 | -0.6%  | 1,958 | 3,026  | 3,242     | 2,259  | 15.4%  |
| Gastroenterology                   | 910    | 864         | 853    | 642   | -29.5% | 1,592 | 1,440  | 1,377     | 1,184  | -25.7% |
| Internal Medicine                  | 13,273 | 15,118      | 11,556 | 7,376 | -44.4% | 1,030 | 3,230  | 2,888     | 2,335  | 126.9% |
| Nephrology                         | 224    | 234         | 529    | 812   | 262.5% | 250   | 323    | 711       | 1,027  | 311.2% |
| Neurology                          | 1,252  | 1,284       | 1,195  | 1,304 | 4.2%   | 2,447 | 2,596  | 2,204     | 1,956  | -20.1% |
| Nutrition                          | 1,049  | 1,097       | 1,011  | 1,086 | 3.5%   | 871   | 1,058  | 949       | 945    | 8.5%   |
| Ophthalmology                      | N/A    | N/A         | 38     | 286   | N/A    | N/A   | N/A    | 73        | 559    | N/A    |
| Optometry                          | 5,652  | 6,255       | 7,699  | 7,906 | 39.9%  | 9,668 | 10,901 | 13,021    | 14,133 | 46.2%  |
| Pain Medicine                      | 100    | 97          | 157    | 256   | 156.0% | 22    | 16     | 13        | 2      | -89.1% |
| Physical Medicine & Rehabilitation | 6,632  | 6,612       | 7,664  | 7,824 | 18.0%  | 7,607 | 7,242  | 8,445     | 9,220  | 21.2%  |
| Podiatry                           | 4,254  | 5,039       | 6,074  | 7,348 | 72.7%  | 4,684 | 4,176  | 5,309     | 7,476  | 59.6%  |
| Polytrauma                         | 102    | 126         | 114    | 119   | 16.7%  | 253   | 291    | 234       | 184    | -27.2% |
| Rheumatology                       | 397    | 418         | 475    | 577   | 45.3%  | 736   | 697    | 767       | 911    | 23.7%  |
| Urology                            | N/A    | 342         | 1,272  | 1,630 | N/A    | N/A   | 562    | 1,755     | 2,111  | N/A    |
| (V10) (541GN) State Street-        | N/A    | N/A         | 2,992  | 5,897 | N/A    | N/A   | N/A    | 4,499     | 8,754  | N/A    |
| Painesville                        |        |             |        |       |        |       |        |           |        |        |
| Dermatology                        | N/A    | N/A         | 78     | 294   | N/A    | N/A   | N/A    | 0         | 6      | N/A    |
| Optometry                          | N/A    | N/A         | 1,350  | 2,730 | N/A    | N/A   | N/A    | 2,540     | 4,950  | N/A    |
| Podiatry                           | N/A    | N/A         | 1,564  | 2,873 | N/A    | N/A   | N/A    | 1,959     | 3,799  | N/A    |
| (V10) (541QB) Cleveland-Euclid     | N/A    | N/A         | 30     | 19    | N/A    | N/A   | N/A    | 11        | 8      | N/A    |
| Physical Medicine & Rehabilitation | N/A    | N/A         | 30     | 19    | N/A    | N/A   | N/A    | 11        | 8      | N/A    |
| (V10) (541QF) Cuyahoga County 4    | N/A    | 1,722       | 2,445  | 2,497 | N/A    | N/A   | 1,245  | 1,484     | 1,610  | N/A    |
| Mobile                             |        |             |        |       |        |       |        |           |        |        |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments



### **Demand**

|                              | Encounters*           |      |      |      | 4 Yr. Ch. |       | 4 Yr. Ch. |       |      |  |
|------------------------------|-----------------------|------|------|------|-----------|-------|-----------|-------|------|--|
| Specialty Title              | FY15                  | FY16 | FY17 | FY18 |           | FY15  | FY16      | FY17  | FY18 |  |
| Audiology & Speech Pathology | N/A 1,722 2,445 2,497 |      |      | N/A  | N/A       | 1,245 | 1,484     | 1,610 | N/A  |  |

<sup>\*</sup>Specialties were only included if there were greater than 15 encounters in any of the past four years.

Note: Data limited to workload from patients originating from within the counties of Phase Two VISNs in the Market Assessments



## **Demand** Specialty Care Stop Code Trends FY15-18 – Dental

| Dental*               | Visits |        |        | 4 Yr. Ch. | RVU Equivalent |           |           |           | 4 Yr. Ch. |        |
|-----------------------|--------|--------|--------|-----------|----------------|-----------|-----------|-----------|-----------|--------|
| Facility              | FY15   | FY16   | FY17   | FY18      |                | FY15      | FY16      | FY17      | FY18      |        |
| (V10) (541) Cleveland | 19,006 | 17,220 | 17,362 | 17,381    | -8.5%          | 1,397,349 | 1,291,479 | 1,249,950 | 1,257,063 | -10.0% |

**Source: Office of Dentistry** 2.35.V10.NortheastOhio

<sup>\*</sup>Dental Data is derived from the Office of Dentistry's dataset and represents Visits, RVU Equivalents, and Unique Patients.



### **Demand**

### Telehealth — FY18 Telehealth Utilization

| Telehealth Utilization                        | Cleveland-Ohio | National |
|---|----------------|----------|
| Telehealth Use (Tele1)                        | 18.8%          | 13.1%    |
| Home Telehealth (Tele2)                       | 1.5%           | 2.3%     |
| Clinical Video Telehealth (Tele3)             | 7.0%           | 6.6%     |
| Store and Forward Telehealth (Tele4)          | 12.0%          | 5.3%     |
| eConsult (SC10)                               | 8.8%           | 8.3%     |
| SCAN ECHO (SC20)                              | 0.0%           | 0.0%     |
| Video Telehealth to Off Site Patients (Tele9) | 0.2%           | 0.5%     |

Note: Telehealth utilization is based on percentage of unique patients leveraging telehealth-related tools/technology.

### **Demand** ► Telehealth Encounters by Patient and Provider Site\* — Cleveland-Ohio

| Patient Site                           | FY15   | FY16   | FY17   | FY18   | 4 Yr Avg |
|--|--------|--------|--------|--------|----------|
| (V10) (541) Cleveland-Ohio             | 1,957  | 2,903  | 4,519  | 3,807  | 3,296    |
| (V10) (541BY) Canton                   | 1,582  | 1,388  | 2,101  | 1,678  | 1,687    |
| (V10) (541BZ) Youngstown               | 2,485  | 2,490  | 1,974  | 2,163  | 2,278    |
| (V10) (541GB) Lorain                   | 423    | 341    | 478    | 791    | 508      |
| (V10) (541GC) Sandusky                 | 807    | 1,147  | 978    | 673    | 901      |
| (V10) (541GD) Mansfield                | 680    | 972    | 1,690  | 3,788  | 1,782    |
| (V10) (541GE) McCafferty               | 29     | 10     | 16     | 15     | 17       |
| (V10) (541GF) Lake County              | 468    | 271    | 328    | 239    | 326      |
| (V10) (541GG) Akron                    | 2,575  | 2,362  | 2,129  | 1,860  | 2,231    |
| (V10) (541GH) East Liverpool           | 1,081  | 1,922  | 1,485  | 1,006  | 1,373    |
| (V10) (541GI) Warren                   | 296    | 647    | 156    | 331    | 357      |
| (V10) (541GJ) New Philadelphia         | 1,406  | 1,141  | 1,496  | 1,260  | 1,325    |
| (V10) (541GK) Ravenna                  | 252    | 322    | 590    | 398    | 390      |
| (V10) (541GL) Parma                    | 1,823  | 2,593  | 2,084  | 3,825  | 2,581    |
| (V10) (541GN) State Street-Painesville |        |        | 163    | 484    | 323      |
| (V10) (541PA) Cleveland PRRTP OH       | 7      | 11     |        |        | 9        |
| (V10) (541QA) Summit County            |        |        | 104    | 80     | 92       |
| (V10) (541QB) Cleveland-Euclid         |        |        | 16     | 4      | 10       |
| Total                                  | 15,871 | 18,520 | 20,307 | 22,402 | 19,275   |

Note: Patient site indicates the clinic location by primary stop code where the patient receives the service \*Includes 4 Types: CVT General (690/692,693,699), CVT NationalCenter (644/645), CVT ProviderToHomePatient (179), and SF General (694/695,696)

**Cleveland-Ohio VAMC & Treating Facility Encounters by Provider Site** 

| Provider Site                          | FY15-18 Total | % of Total |
|--|---------------|------------|
| Provider Site                          |               |            |
|  | Encounters    | Encounters |
| (V10) (541) Cleveland-Ohio             | 41,100        | 53.3%      |
| (V10) (541GG) Akron                    | 7,395         | 9.6%       |
| (V10) (541GB) Lorain                   | 5,358         | 6.9%       |
| (V10) (541GL) Parma                    | 5,074         | 6.6%       |
| (V10) (541GH) East Liverpool           | 2,903         | 3.8%       |
| (V10) (541GI) Warren                   | 2,688         | 3.5%       |
| (V10) (541GJ) New Philadelphia         | 2,077         | 2.7%       |
| (V10) (541GD) Mansfield                | 1,769         | 2.3%       |
| (V10) (541GF) Lake County              | 1,712         | 2.2%       |
| (V10) (541GC) Sandusky                 | 1,691         | 2.2%       |
| (V10) (541GE) McCafferty               | 1,295         | 1.7%       |
| (V10) (541BZ) Youngstown               | 1,066         | 1.4%       |
| (V10) (541BY) Canton                   | 1,044         | 1.4%       |
| (V10) (541GK) Ravenna                  | 992           | 1.3%       |
| (V19) (660) Salt Lake City             | 245           | 0.3%       |
| (V10) (539A4) Cincinnati-Fort Thomas   | 207           | 0.3%       |
| (V10) (541QB) Cleveland-Euclid         | 169           | 0.2%       |
| (V10) (541GN) State Street-Painesville | 130           | 0.2%       |
| (V04) (642) Philadelphia-Pennsylvania  | 52            | 0.1%       |
| (V10) (541QA) Summit County            | 35            | 0.0%       |
| (V05) (581) Huntington-West Virginia   | 34            | 0.0%       |
| (V10) (541PA) Cleveland PRRTP OH       | 30            | 0.0%       |
| (V10) (552) Dayton                     | 8             | 0.0%       |
| (V04) (529) Butler-Pennsylvania        | 6             | 0.0%       |
| (V10) (506) Ann Arbor-Michigan         | 5             | 0.0%       |
| (V10) (538) Chillicothe-Ohio           | 5             | 0.0%       |
| (V02) (528) Buffalo-New York           | 4             | 0.0%       |
| (V10) (757) Columbus-Ohio              | 2             | 0.0%       |
| (V04) (562) Erie                       | 1             | 0.0%       |
| (V10) (539) Cincinnati-Ohio            | 1             | 0.0%       |
| (V10) (539QB) Highland Avenue          | 1             | 0.0%       |
| (V17) (580) Houston-Texas              | 1             | 0.0%       |

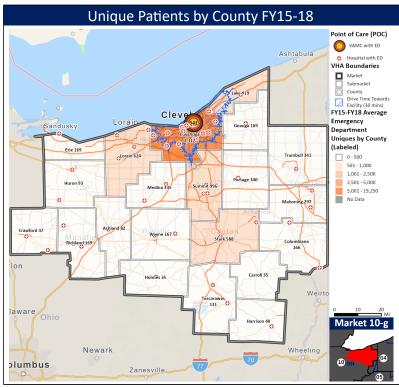


## **Demand** Telehealth Encounters by Specialty\*

|                | Specialties                        | FY15   | FY16   | FY17   | FY18   | 4 Yr Avg |
|----------------|------------------------------------|--------|--------|--------|--------|----------|
| Cleveland-Ohio | Physical Medicine & Rehabilitation | 167    | 201    | 227    | 89     | 171      |
|                | Pain Medicine                      | 1,773  | 1,677  | 1,716  | 1,612  | 1,695    |
|                | Ophthalmology                      | 3,203  | 2,492  | 2,279  | 1,875  | 2,462    |
|                | Nutrition                          | 247    | 229    | 264    | 290    | 258      |
|                | Mental Health                      | 4,350  | 5,759  | 4,083  | 4,408  | 4,650    |
|                | Endocrinology                      | 106    | 130    | 54     | N/A    | 73       |
|                | Dermatology                        | 1,590  | 1,973  | 1,981  | 2,770  | 2,079    |
|                | Critical Care / Pulmonary Disease  | N/A    | 784    | 1,674  | 1,882  | 1,085    |
|                | Clinical Pharmacology              | 1      | 3      | 38     | 426    | 117      |
|                | All Other Specialties              | 4,433  | 5,272  | 7,991  | 9,039  | 6,684    |
|                | Total                              | 15,870 | 18,520 | 20,307 | 22,391 | 19,272   |



## **Demand** Emergency Department Uniques (FY15-18)

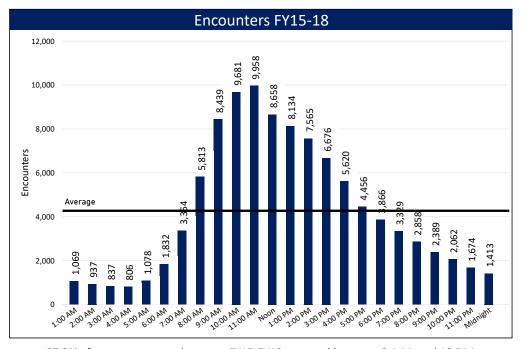


Note: Map shows acute and critical access hospitals with Emergency Departments and does not include freestanding Emergency Departments

Source: HRSA Data Warehouse 2.28.V10.NortheastOhio#IMG



## **Demand** ► Emergency Department Encounters FY15-FY18 — Cleveland-Ohio VAMC



|                  | CPT Code | FY15   | FY16   | FY17   | FY18   |
|------------------|----------|--------|--------|--------|--------|
| Encounters       | 99281    | 4,166  | 4,119  | 1,593  | 2,382  |
|                  | 99282    | 5,120  | 4,831  | 5,912  | 5,045  |
|                  | 99283    | 8,992  | 9,530  | 10,142 | 10,094 |
|                  | 99284    | 4,146  | 4,665  | 4,552  | 5,408  |
|                  | 99285    | 1,390  | 1,232  | 2,009  | 1,634  |
| Total Encounters | Total    | 23,814 | 24,377 | 24,208 | 24,563 |
| VA Admissions %  | Total    | 18.1%  | 17.6%  | 18.6%  | 19.8%  |
| % Transfers      | Total    | 0.7%   | 0.7%   | 0.7%   | 0.7%   |

 $\bf 87.3\%$  of encounters seen between FY15-FY18 occurred between 8 A.M. and 10 P.M.

81.3% of encounters seen between FY15-18 occurred on weekdays vs. weekends

## **Demand** Emergency Department Operations

|                | Measure                          | FY17 | FY18 | FY17 National | FY18 National |
|----------------|----------------------------------|------|------|---------------|---------------|
| Cleveland-Ohio | ED Door to Inpatient Floor (Min) | 286  | 304  | 312           | 316           |
|                | ED Admit Delay (Min)             | 104  | 109  | 126           | 129           |
|                | ED % Boarded > 4 Hrs             | 5.8% | 7.3% | 15.2%         | 16.2%         |
|                | Diversion Total Hours            | N/A  | N/A  | N/A           | 262,871       |

### **Demand** Non-VA Community Care (NVCC) FY16-18 – Outpatient CPT Authorizations

|          | Sector/County Name |                   |      | Primary Care |      | N    | lental Healt | h    |       | Medicine |       |      | Surgery |      | Re   | hab Medicin | e    |
|----------|--------------------|-------------------|------|--------------|------|------|--------------|------|-------|----------|-------|------|---------|------|------|-------------|------|
| Sector   | County Name        | 2017<br>Enrollees | FY16 | FY17         | FY18 | FY16 | FY17         | FY18 | FY16  | FY17     | FY18  | FY16 | FY17    | FY18 | FY16 | FY17        | FY18 |
| 10-g-9-A | Cuyahoga, OH       | 32,883            | 4    | 1            | 4    | 32   | 25           | 38   | 734   | 803      | 962   | 712  | 586     | 755  | 50   | 46          | 49   |
|          | Sector Subtotal    | 32,883            | 4    | 1            | 4    | 32   | 25           | 38   | 734   | 803      | 962   | 712  | 586     | 755  | 50   | 46          | 49   |
| 10-g-9-B | Geauga, OH         | 1,897             | N/A  | N/A          | N/A  | 1    | 1            | 3    | 80    | 61       | 142   | 75   | 62      | 76   | 30   | 42          | 72   |
| 10-g-9-B | Lake, OH           | 7,150             | 1    | 1            | N/A  | N/A  | N/A          | 10   | 353   | 252      | 487   | 312  | 239     | 238  | 104  | 112         | 228  |
| 10-g-9-B | Portage, OH        | 4,511             | 1    | N/A          | 2    | 5    | 7            | 10   | 242   | 235      | 356   | 145  | 133     | 194  | 58   | 49          | 64   |
| 10-g-9-B | Trumbull, OH       | 7,369             | 2    | 1            | 2    | 54   | 57           | 53   | 367   | 432      | 605   | 223  | 267     | 344  | 65   | 67          | 121  |
|          | Sector Subtotal    | 20,927            | 4    | 2            | 4    | 60   | 65           | 76   | 1,042 | 980      | 1,590 | 755  | 701     | 852  | 257  | 270         | 485  |
| 10-g-9-C | Ashland, OH        | 1,747             | 1    | N/A          | 2    | 2    | N/A          | 2    | 75    | 63       | 88    | 61   | 57      | 73   | 15   | 8           | 15   |
| 10-g-9-C | Crawford, OH       | 1,584             | N/A  | N/A          | N/A  | N/A  | 2            | 2    | 52    | 41       | 91    | 57   | 71      | 71   | 15   | 17          | 32   |
| 10-g-9-C | Erie, OH           | 3,173             | N/A  | N/A          | N/A  | 2    | 2            | 2    | 135   | 96       | 164   | 120  | 120     | 118  | 86   | 49          | 82   |
| 10-g-9-C | Holmes, OH         | 564               | N/A  | N/A          | 1    | N/A  | N/A          | N/A  | 34    | 37       | 43    | 25   | 27      | 30   | 16   | 5           | 16   |
| 10-g-9-C | Huron, OH          | 2,236             | N/A  | N/A          | N/A  | 1    | N/A          | N/A  | 75    | 71       | 106   | 71   | 66      | 67   | 44   | 33          | 48   |
| 10-g-9-C | Richland, OH       | 4,831             | 3    | N/A          | 1    | 6    | 2            | 1    | 168   | 152      | 234   | 206  | 222     | 204  | 23   | 21          | 29   |
| 10-g-9-C | Wayne, OH          | 2,939             | 2    | N/A          | 1    | 5    | 7            | 3    | 111   | 99       | 158   | 115  | 109     | 121  | 45   | 25          | 41   |
|          | Sector Subtotal    | 17,074            | 6    | N/A          | 5    | 16   | 13           | 10   | 650   | 559      | 884   | 655  | 672     | 684  | 244  | 158         | 263  |
| 10-g-9-D | Carroll, OH        | 696               | N/A  | N/A          | N/A  | N/A  | N/A          | N/A  | 45    | 55       | 71    | 43   | 40      | 52   | 33   | 26          | 18   |
| 10-g-9-D | Columbiana, OH     | 4,057             | N/A  | N/A          | 2    | N/A  | N/A          | N/A  | 210   | 210      | 355   | 143  | 140     | 175  | 95   | 87          | 191  |
| 10-g-9-D | Harrison, OH       | 604               | 1    | N/A          | N/A  | N/A  | N/A          | N/A  | 34    | 22       | 31    | 15   | 16      | 23   | 16   | 17          | 29   |
| 10-g-9-D | Tuscarawas, OH     | 3,206             | 1    | N/A          | 1    | 1    | N/A          | N/A  | 196   | 217      | 289   | 311  | 219     | 272  | 123  | 78          | 92   |
|          | Sector Subtotal    | 8,563             | 2    | N/A          | 3    | 1    | N/A          | N/A  | 485   | 504      | 746   | 512  | 415     | 522  | 267  | 208         | 330  |
| 10-g-9-E | Summit, OH         | 13,659            | 2    | N/A          | 3    | 89   | 99           | 59   | 698   | 752      | 1,012 | 391  | 435     | 552  | 73   | 67          | 89   |
|          | Sector Subtotal    | 13,659            | 2    | N/A          | 3    | 89   | 99           | 59   | 698   | 752      | 1,012 | 391  | 435     | 552  | 73   | 67          | 89   |
| 10-g-9-F | Lorain, OH         | 9,251             | N/A  | N/A          | 6    | 10   | 4            | 5    | 263   | 258      | 348   | 294  | 255     | 328  | 27   | 33          | 42   |
| 10-g-9-F | Medina, OH         | 4,265             | N/A  | N/A          | N/A  | 1    | 3            | 2    | 116   | 122      | 209   | 85   | 72      | 117  | 13   | 26          | 37   |
|          | Sector Subtotal    | 13,516            | N/A  | N/A          | 6    | 11   | 7            | 7    | 379   | 380      | 557   | 379  | 327     | 445  | 40   | 59          | 79   |
| 10-g-9-G | Mahoning, OH       | 7,825             | 2    | 1            | 1    | 66   | 64           | 70   | 307   | 277      | 434   | 257  | 237     | 318  | 55   | 61          | 71   |

Source: VHA Office of Community Care 2.30.V10.NortheastOhio



### **Demand**

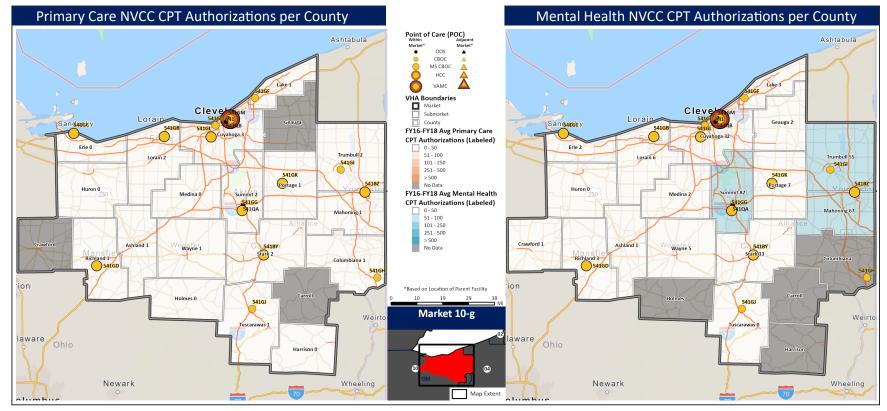
### Non-VA Community Care (NVCC) FY16-18 – Outpatient CPT Authorizations, cont.

|          | Sector/County Name |                   |      | Primary Care |      | ı    | Mental Healt | h    |       | Medicine |       |       | Surgery |       | Re    | hab Medicin | e     |
|----------|--------------------|-------------------|------|--------------|------|------|--------------|------|-------|----------|-------|-------|---------|-------|-------|-------------|-------|
| Sector   | County Name        | 2017<br>Enrollees | FY16 | FY17         | FY18 | FY16 | FY17         | FY18 | FY16  | FY17     | FY18  | FY16  | FY17    | FY18  | FY16  | FY17        | FY18  |
|          | Sector Subtotal    | 7,825             | 2    | 1            | 1    | 66   | 64           | 70   | 307   | 277      | 434   | 257   | 237     | 318   | 55    | 61          | 71    |
| 10-g-9-H | Stark, OH          | 11,717            | 3    | N/A          | 2    | 40   | 32           | 28   | 506   | 599      | 840   | 499   | 530     | 634   | 77    | 72          | 88    |
|          | Sector Subtotal    | 11,717            | 3    | N/A          | 2    | 40   | 32           | 28   | 506   | 599      | 840   | 499   | 530     | 634   | 77    | 72          | 88    |
|          | Market Total       | 126,164           | 23   | 4            | 28   | 315  | 305          | 288  | 4,801 | 4,854    | 7,025 | 4,160 | 3,903   | 4,762 | 1,063 | 941         | 1,454 |

Source: VHA Office of Community Care 2.30.V10.NortheastOhio#2

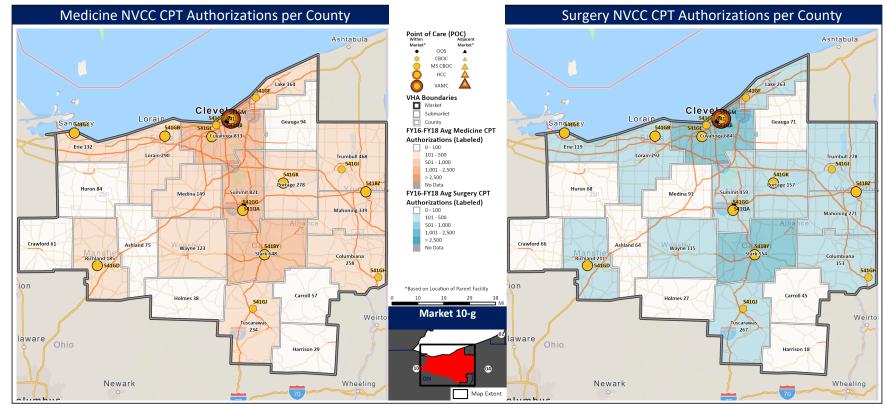
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**Demand** NVCC Outpatient CPT Authorizations (Primary Care and Mental Health)





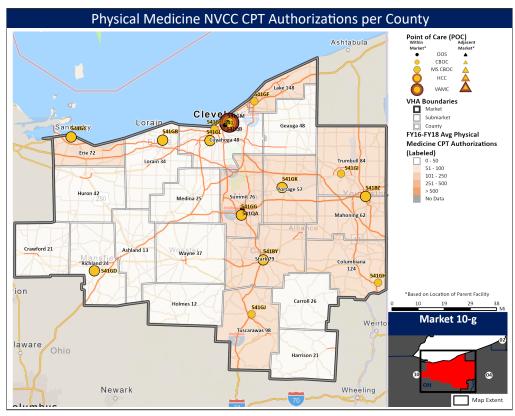
### **Demand** NVCC Outpatient CPT Authorizations (Medicine and Surgery)





### **Demand**

### **NVCC Outpatient CPT Authorizations (Physical Medicine)**



Source: VHA Office of Community Care 2.34.V10.NortheastOhio

## **Demand** Top Services Provided by NVCC for Cleveland-Ohio

| Commercial*                              |                      |                      |                      |  |  |  |  |  |
|--|----------------------|----------------------|----------------------|--|--|--|--|--|
|  | FY16                 | FY17                 | FY18                 |  |  |  |  |  |
| Category of Care                         | Total Authorizations | Total Authorizations | Total Authorizations |  |  |  |  |  |
| NIC HOMEMAKER/HOME HEALTH AID            | 5,715                | 7,879                | 7,426                |  |  |  |  |  |
| ER VISIT/URGENT CARE                     | 2,677                | 2,046                | 2,466                |  |  |  |  |  |
| Inpatient                                | 1,406                | 1,337                | 2,114                |  |  |  |  |  |
| OPHTHALMOLOGY                            | 993                  | 1,029                | 1,284                |  |  |  |  |  |
| COLONOSCOPY                              | 883                  | 844                  | 1,238                |  |  |  |  |  |
| OPHTHALMOLOGY TESTS, PROCEDURES, STUDIES | 914                  | 1,152                | 1,155                |  |  |  |  |  |
| PHYSICAL THERAPY                         | 869                  | 530                  | 953                  |  |  |  |  |  |
| NEPHROLOGY                               | 556                  | 734                  | 944                  |  |  |  |  |  |
| DERMATOLOGY TESTS, PROCEDURES, STUDIES   | 526                  | 445                  | 879                  |  |  |  |  |  |
| RADIOLOGY MAMMOGRAM                      | 614                  | 392                  | 870                  |  |  |  |  |  |
| ACUPUNCTURE                              | 139                  | 410                  | 816                  |  |  |  |  |  |
| DERMATOLOGY                              | 556                  | 611                  | 763                  |  |  |  |  |  |
| CHIROPRACTIC                             | 150                  | 229                  | 755                  |  |  |  |  |  |
| RADIOLOGY ULTRASOUND                     | 623                  | 732                  | 754                  |  |  |  |  |  |
| NIC ADULT DAY CARE                       | 569                  | 718                  | 696                  |  |  |  |  |  |
| NIC RESPITE CARE                         | 763                  | 650                  | 514                  |  |  |  |  |  |
| NIC SKILLED NURSING                      | 365                  | 529                  | 507                  |  |  |  |  |  |
| ALLERGY AND IMMUNOLOGY                   | 244                  | 223                  | 443                  |  |  |  |  |  |
| VASCULAR                                 | 481                  | 350                  | 405                  |  |  |  |  |  |
| NEUROSURGERY                             | 164                  | 293                  | 384                  |  |  |  |  |  |
| UROLOGY TESTS, PROCEDURES, STUDIES       | 121                  | 91                   | 273                  |  |  |  |  |  |
| RADIOLOGY MRI/MRA                        | 168                  | 231                  | 268                  |  |  |  |  |  |
| MENTAL HEALTH                            | 299                  | 296                  | 267                  |  |  |  |  |  |
| ORTHOPEDIC                               | 225                  | 105                  | 259                  |  |  |  |  |  |
| CARDIOLOGY TESTS, PROCEDURES, STUDIES    | 141                  | 308                  | 257                  |  |  |  |  |  |
| Other                                    | 4,274                | 2,913                | 3,023                |  |  |  |  |  |
| Total                                    | 24,435               | 25,077               | 29,713               |  |  |  |  |  |

**Source: VHA Office of Community Care** 

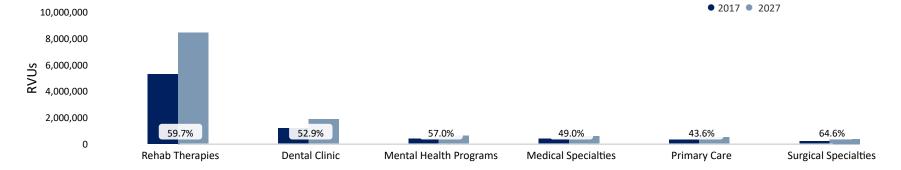
<sup>\*</sup>Commercial includes authorizations from federally qualified health centers and provider agreements



**Demand** ▶ **Estimated Future Market Demand** — **Outpatient** 

## **Demand BY17 Market Utilization Projections (Outpatient)** — Northeast Ohio Market

| BY17 VISN 10: Northeast Ohio Market Utilization Projections (RVUs) |           |           |           |           |           |                 |                 |  |  |  |  |
|--|-----------|-----------|-----------|-----------|-----------|-----------------|-----------------|--|--|--|--|
|  |           | FY17      |           | FY22      | FY27      | 10 Year         | 10 Year %       |  |  |  |  |
|  |           |           |           |           |           | Change in Total | Change in Total |  |  |  |  |
|  | In-House  | Community | Total     | Total     | Total     |                 |                 |  |  |  |  |
| Rehab Therapies  | 4,923,491 | 373,714   | 5,297,204 | 6,966,460 | 8,460,234 | 3,163,029       | +59.7%          |  |  |  |  |
| Dental Clinic  | 1,194,193 | 43,853    | 1,238,046 | 1,685,516 | 1,893,285 | 655,239         | +52.9%          |  |  |  |  |
| Mental Health Programs   | 425,602   | 2,697     | 428,299   | 562,153   | 672,299   | 243,999         | +57%            |  |  |  |  |
| Medical Specialties  | 369,704   | 52,463    | 422,167   | 540,127   | 629,103   | 206,936         | +49%            |  |  |  |  |
| Primary Care   | 357,148   | 9,215     | 366,363   | 455,399   | 526,246   | 159,882         | +43.6%          |  |  |  |  |
| Surgical Specialties   | 201,253   | 35,561    | 236,814   | 317,398   | 389,859   | 153,045         | +64.6%          |  |  |  |  |



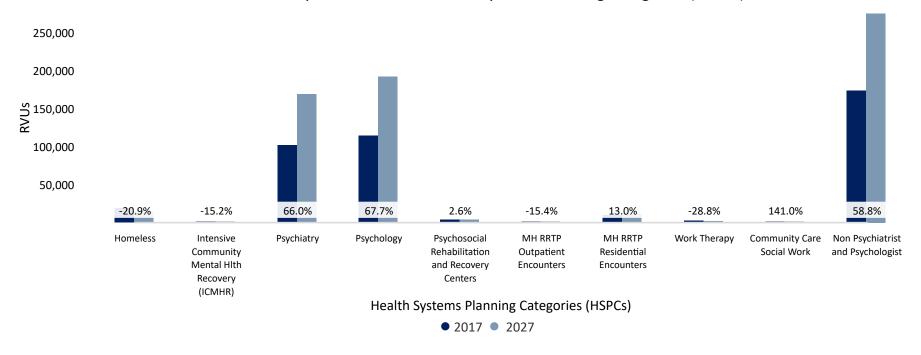
**Health Systems Planning Group (HSPGs)** 

Source: BY17 EHCPM Utilization Projections 3.1.V10.NortheastOhio

Demand

**Outpatient Utilization Projections by Health Systems Planning Category (HSPC) Mental** Health RVUs — Northeast Ohio Market

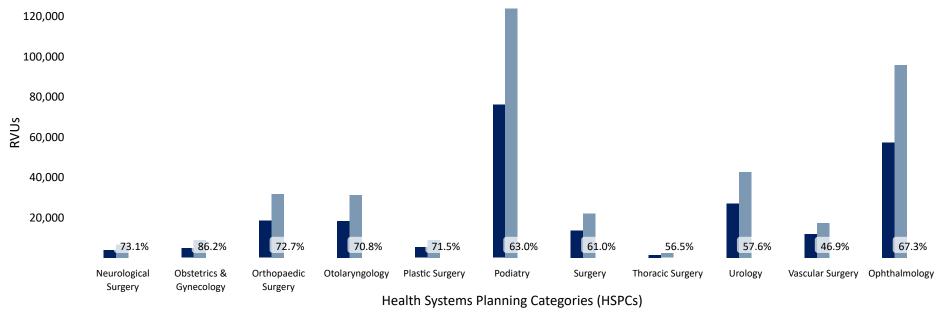
Ambulatory Mental Health, Health Systems Planning Categories (HSPCs)





Demand Outpatient Utilization Projections by Health Systems Planning Category (HSPC) Surgical Specialties RVUs — Northeast Ohio Market

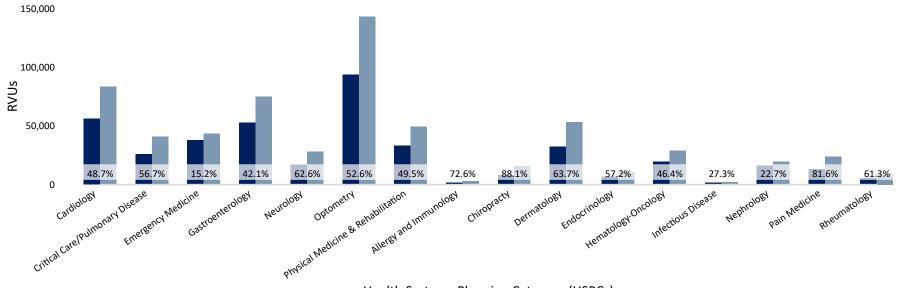
Ambulatory Surgical Specialties, Health Systems Planning Categories (HSPCs)



**2017 2027** 

Demand Outpatient Utilization Projections by Health Systems Planning Category (HSPC) Medical Specialties RVUs — Northeast Ohio Market

Ambulatory Medical Specialties, Health Systems Planning Categories (HSPCs)



Health Systems Planning Category (HSPCs)

**2017 2027** 

## **Demand**

Home Telehealth

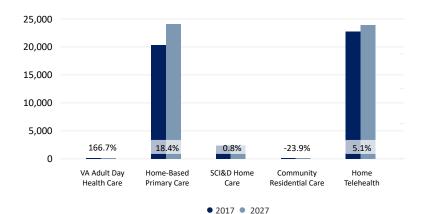
# Outpatient Utilization Projections by Health Systems Planning Category (HSPC) Ambulatory Long Term Support Services — Northeast Ohio Market

5.1%

1.165

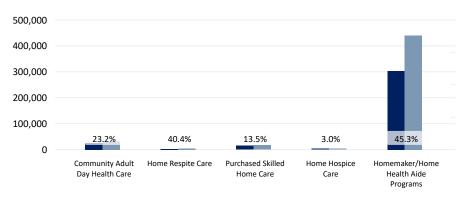
#### BY17 Northeast Ohio Market In-House LTSS Utilization Projections (RVUs) FY27 10 Year Change 10 Year % Change VA Adult Day Health Care 8 5 166.7% Home-Based Primary Care 20,321 22,074 24,056 3,735 18.4% SCI&D Home Care 2,343 2,346 18 0.8% 2,328 Community Residential Care 46 40 35 -11 -23.9%

22,712 23,957 23,877



### BY17 Northeast Ohio Market Community LTSS Utilization Projections (Procedures)

|                                     | FY17    | FY22    | FY27    | 10 Year Change | 10 Year % Change |
|-------------------------------------|---------|---------|---------|----------------|------------------|
| Community Adult Day Health Care     | 25,327  | 28,848  | 31,214  | 5,887          | 23.2%            |
| Home Respite Care                   | 2,908   | 3,494   | 4,082   | 1,174          | 40.4%            |
| Purchased Skilled Home Care         | 14,851  | 16,426  | 16,849  | 1,998          | 13.5%            |
| Home Hospice Care                   | 3,495   | 3,696   | 3,601   | 106            | 3.0%             |
| Homemaker/Home Health Aide Programs | 302,967 | 396,373 | 440,308 | 137,341        | 45.3%            |

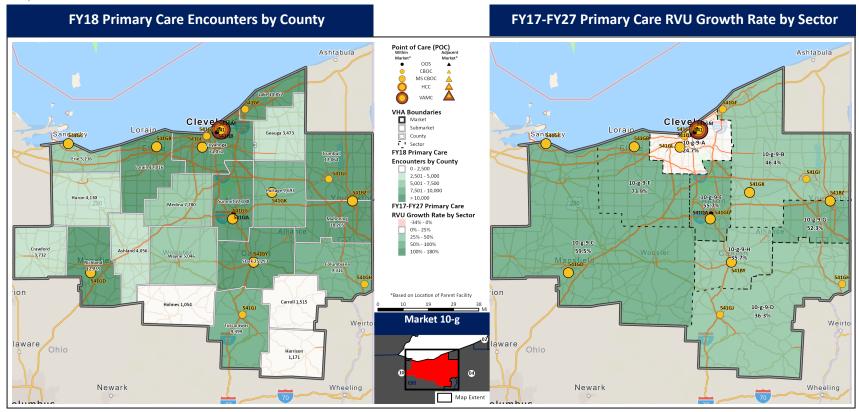


20172027

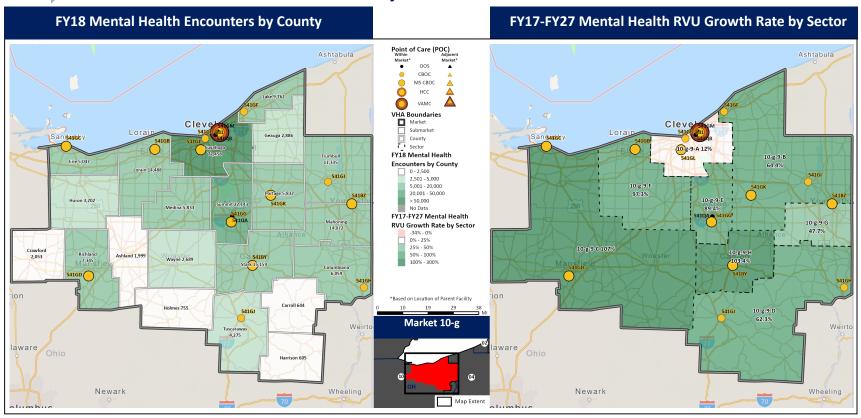
Source: BY17 EHCPM Utilization Projections 3.5.V10.NortheastOhio



## **Demand** Primary Care Workload – Historic & Projected

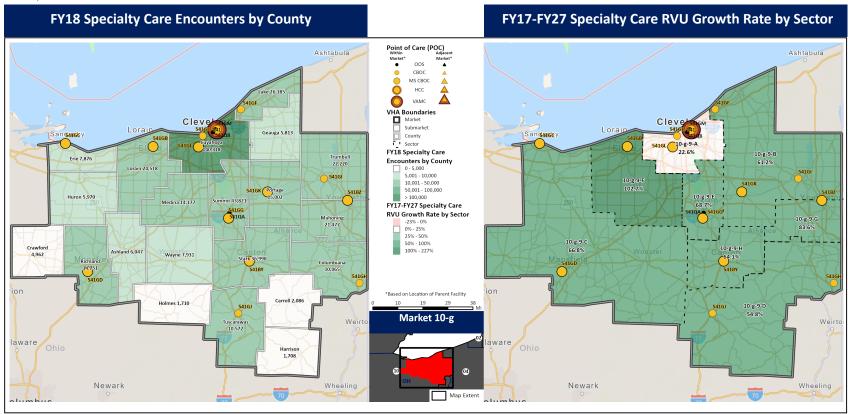


## **Demand** Mental Health Workload – Historic & Projected



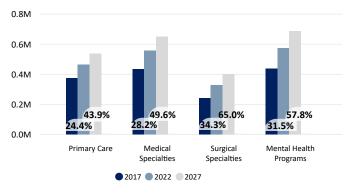


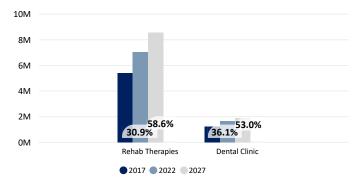
**Demand** Specialty Care Workload (Med/Surg Specialties Combined) – Historic & Projected



## **Demand** ▶ BY17 Parent Facility Utilization Projections (Outpatient) — Cleveland-Ohio VAMC

| BY17 Cleveland-Ohio VAMC Utilization Projections (RVUs) |           |           |           |           |           |                               |                                 |  |  |  |  |  |
|---|-----------|-----------|-----------|-----------|-----------|-------------------------------|---------------------------------|--|--|--|--|--|
|   |           | FY17      |           | FY22      | FY27      | 10 Year<br>Change in<br>Total | 10 Year %<br>Change in<br>Total |  |  |  |  |  |
|   | In-House  | Community | Total     | Total     | Total     |                               |                                 |  |  |  |  |  |
| Primary Care  | 362,724   | 9,775     | 372,499   | 463,533   | 535,960   | 163,461                       | 43.9%                           |  |  |  |  |  |
| Medical Specialties                                     | 382,843   | 52,343    | 435,186   | 558,066   | 651,028   | 215,842                       | 49.6%                           |  |  |  |  |  |
| Surgical Specialties                                    | 206,173   | 36,450    | 242,623   | 325,954   | 400,441   | 157,818                       | 65.0%                           |  |  |  |  |  |
| Mental Health Programs                                  | 433,948   | 2,300     | 436,248   | 573,605   | 688,343   | 252,095                       | 57.8%                           |  |  |  |  |  |
| Rehab Therapies   | 5,046,356 | 348,399   | 5,394,755 | 7,061,570 | 8,555,548 | 3,160,793                     | 58.6%                           |  |  |  |  |  |
| Dental Clinic   | 1,192,140 | 37,017    | 1,229,157 | 1,673,178 | 1,880,032 | 650,875                       | 53.0%                           |  |  |  |  |  |



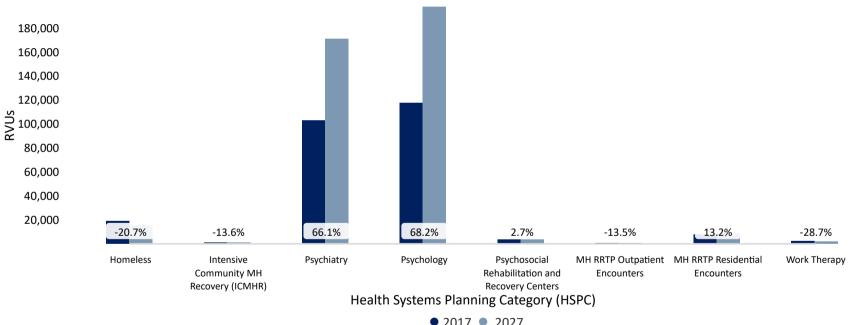


Source: BY17 EHCPM Utilization Projections 3.9.V10.NortheastOhio.541



**Outpatient Parent Facility Utilization Projections by Health Systems Planning** Demand Category (HSPC) Mental Health RVUs — Cleveland-Ohio VAMC

Ambulatory Mental Health, Health Systems Planning Categories (HSPCs)

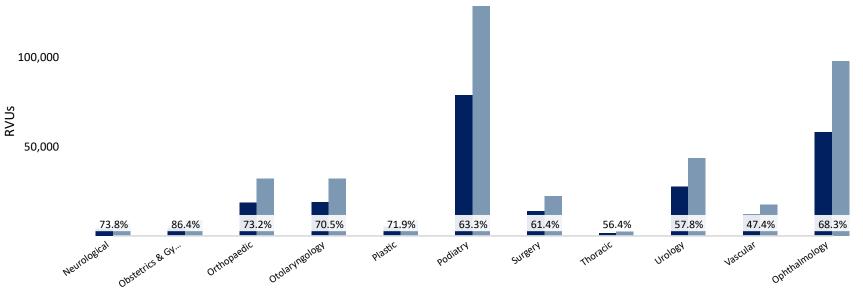


20172027



Demand Outpatient Parent Facility Utilization Projections by Health Systems Planning Category (HSPC) Surgical Specialties RVUs — Cleveland-Ohio VAMC

Ambulatory Surgical Specialties, Health Systems Planning Categories (HSPCs)



Health Systems Planning Category (HSPC)

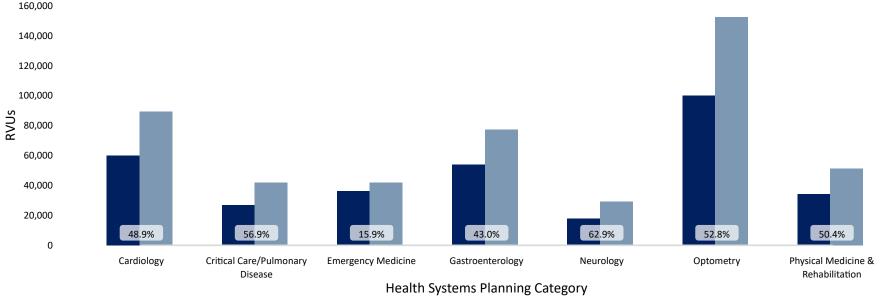
**2017 2027** 



Demand

**Outpatient Parent Facility Utilization Projections by Health Systems Planning Category** (HSPC) Medical Specialties RVUs — Cleveland-Ohio VAMC

Ambulatory Medical Specialties, Health Systems Planning Categories (HSPCs)

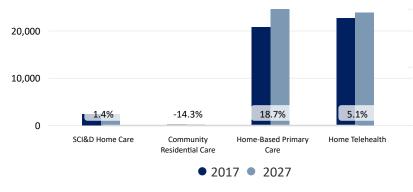


20172027

VISN 10: Northeast Ohio Market — Cleveland-Ohio

Demand Outpatient Parent Facility Utilization Projections by Health Systems Planning Category (HSPC)
Ambulatory Long Term Support Services — Cleveland-Ohio VAMC

| BY17 Cleveland-Ohio VAMC In-House<br>LTSS Utilization Projections (RVUs) |        |        |        |                   | BY17 Cleveland-Ohio VAMC Community LTSS Utilization Projections (Procedures)* |                             |         |         |         |                   |                     |
|--|--------|--------|--------|-------------------|---|-----------------------------|---------|---------|---------|-------------------|---------------------|
|  | FY17   | FY22   | FY27   | 10 Year<br>Change | 10 Year %<br>Change   |                             | FY17    | FY22    | FY27    | 10 Year<br>Change | 10 Year %<br>Change |
| SCI&D Home Care  | 2,341  | 2,371  | 2,373  | 32                | 1.4%  | Community Adult Day Health  | 25,411  | 28,970  | 31,360  | 5,949             | 23.4%               |
| VA Adult Day Health Care   | N/A    | N/A    | N/A    | N/A               | N/A   | Care                        |         |         |         |                   |                     |
| Community Residential  | 49     | 47     | 42     | -7                | -14.3%  | Home Respite Care           | 2,960   | 3,560   | 4,161   | 1,201             | 40.6%               |
| Care   |        |        |        |                   |   | Purchased Skilled Home Care | 14,923  | 16,508  | 16,949  | 2,026             | 13.6%               |
| Home-Based Primary   | 20,745 | 22,575 | 24,614 | 3,870             | 18.7%   | Home Hospice Care           | 3,829   | 4,075   | 3,984   | 155               | 4.0%                |
| Care   |        |        |        |                   |   | Homemaker/Home Health Aide  | 311,391 | 408,499 | 454,348 | 142,957           | 45.9%               |
| Home Telehealth  | 22,728 | 23,970 | 23,885 | 1,157             | 5.1%  | Programs                    |         |         |         |                   |                     |





<sup>\*</sup> Provided at procedure level given the limited RVU reporting for these services



## **Demand**

## **Overall Outpatient Commercial Demand – Cleveland-Ohio Area**

#### · Overview:

- Outpatient demand estimates (patient visits) were also developed to understand current and future expected commercial outpatient demand
- ✓ Demand estimates are based on non-Veteran patient origin within a 60 minute drive time from parent VA Medical Center/ Health Care Center noted

|                                     | Р         | atient Visi | ts        | Growth Projections |       |             |       |  |
|-------------------------------------|-----------|-------------|-----------|--------------------|-------|-------------|-------|--|
| Clinical Service Line               | 2018      | 2023        | 2028      | 5 Year Chg         | % Chg | 10 Year Chg | % Chg |  |
| General/Family Practice             | 3,203,988 | 3,345,981   | 3,532,485 | 141,992            | 4.4%  | 328,497     | 10.3% |  |
| Internal Medicine                   | 2,001,946 | 2,154,407   | 2,321,867 | 152,460            | 7.6%  | 319,921     | 16.0% |  |
| Primary Care Total                  | 5,205,935 | 5,500,388   | 5,854,353 | 294,453            | 5.7%  | 648,418     | 12.5% |  |
| Allergy/Immunology                  | 93,160    | 98,607      | 105,254   | 5,446              | 5.8%  | 12,093      | 13.0% |  |
| Cardiology                          | 714,668   | 820,314     | 925,563   | 105,646            | 14.8% | 210,896     | 29.5% |  |
| Dermatology                         | 450,659   | 489,124     | 530,473   | 38,465             | 8.5%  | 79,814      | 17.7% |  |
| Endocrinology                       | 137,555   | 146,284     | 156,207   | 8,729              | 6.3%  | 18,652      | 13.6% |  |
| Gastroenterology                    | 249,868   | 275,760     | 302,651   | 25,892             | 10.4% | 52,783      | 21.1% |  |
| Hematology/Oncology                 | 566,118   | 641,996     | 717,225   | 75,878             | 13.4% | 151,107     | 26.7% |  |
| Infectious Disease                  | 31,458    | 34,082      | 36,859    | 2,624              | 8.3%  | 5,401       | 17.2% |  |
| Nephrology                          | 110,853   | 128,000     | 145,097   | 17,147             | 15.5% | 34,244      | 30.9% |  |
| Neurology                           | 202,592   | 217,039     | 232,777   | 14,446             | 7.1%  | 30,185      | 14.9% |  |
| Pain Management                     | 119,163   | 133,653     | 148,557   | 14,490             | 12.2% | 29,394      | 24.7% |  |
| Pulmonology                         | 145,523   | 162,659     | 180,079   | 17,136             | 11.8% | 34,556      | 23.7% |  |
| Rheumatology                        | 117,554   | 126,766     | 136,875   | 9,212              | 7.8%  | 19,321      | 16.4% |  |
| Vascular                            | 48,258    | 56,452      | 64,576    | 8,194              | 17.0% | 16,318      | 33.8% |  |
| Specialty Care (Medicine) Sub-Total | 2,987,429 | 3,330,735   | 3,682,193 | 343,307            | 11.5% | 694,764     | 23.3% |  |
| Cardio/Thoracic Surgery             | 19,878    | 22,016      | 24,124    | 2,138              | 10.8% | 4,246       | 21.4% |  |
| Colorectal Surgery                  | 16,353    | 17,747      | 19,250    | 1,394              | 8.5%  | 2,896       | 17.7% |  |
| General Surgery                     | 222,914   | 243,571     | 264,888   | 20,657             | 9.3%  | 41,973      | 18.8% |  |
| Neurosurgery                        | 41,942    | 44,788      | 47,880    | 2,846              | 6.8%  | 5,938       | 14.2% |  |
| Ophthalmology                       | 561,901   | 630,143     | 700,542   | 68,242             | 12.1% | 138,640     | 24.7% |  |
| Orthopedic Surgery                  | 497,748   | 535,525     | 576,541   | 37,777             | 7.6%  | 78,792      | 15.8% |  |
| Otolaryngology                      | 210,593   | 225,729     | 242,602   | 15,136             | 7.2%  | 32,009      | 15.2% |  |
| Plastic Surgery                     | 45,598    | 49,586      | 53,788    | 3,988              | 8.7%  | 8,190       | 18.0% |  |
| Urology                             | 248,545   | 277,377     | 307,116   | 28,832             | 11.6% | 58,571      | 23.6% |  |
| Specialty Care (Surgery) Sub-Total  | 1,865,474 | 2,046,482   | 2,236,730 | 181,008            | 9.7%  | 371,256     | 19.9% |  |
| Medicine/Surgery Total              | 4,852,902 | 5,377,217   | 5,918,922 | 524,315            | 10.8% | 1,066,020   | 22.0% |  |
| Obstetrics/Gynecology               | 586,252   | 603,060     | 632,723   | 16,807             | 2.9%  | 46,471      | 7.9%  |  |
| Women's Health Total                | 586,252   | 603,060     | 632,723   | 16,807             | 2.9%  | 46,471      | 7.9%  |  |
| Psychiatry                          | 395,072   | 401,672     | 415,754   | 6,599              | 1.7%  | 20,682      | 5.2%  |  |
| Mental Health Total                 | 395,072   | 401,672     | 415,754   | 6,599              | 1.7%  | 20,682      | 5.2%  |  |
| Physical Medicine/Rehab             | 132,500   | 143,524     | 155,548   | 11,023             | 8.3%  | 23,048      | 17.4% |  |
| Rehab Total                         | 132,500   | 143,524     | 155,548   | 11,023             | 8.3%  | 23,048      | 17.4% |  |
| Emergency/Critical Care             | 2,123,531 | 2,261,596   | 2,400,131 | 138,065            | 6.5%  | 276,600     | 13.0% |  |

Source: IBM Market Expert 5 J.NortheastOhio.541



## Demand • Ove

## Overall Outpatient Commercial Demand – Cleveland-Ohio Area, cont.

#### · Overview:

- Outpatient demand estimates (patient visits) were also developed to understand current and future expected commercial outpatient demand
- ✓ Demand estimates are based on non-Veteran patient origin within a 60 minute drive time from parent VA Medical Center/ Health Care Center noted

|                          | Patient Visits |            |            |            | Growth Pr |             |       |
|--------------------------|----------------|------------|------------|------------|-----------|-------------|-------|
| Clinical Service Line    | 2018           | 2023       | 2028       | 5 Year Chg | % Chg     | 10 Year Chg | % Chg |
| Emergency Services Total | 2,123,531      | 2,261,596  | 2,400,131  | 138,065    | 6.5%      | 276,600     | 13.0% |
| Nurse Practitioner       | 489,321        | 534,927    | 584,874    | 45,606     | 9.3%      | 95,553      | 19.5% |
| Physician Assistant      | 355,675        | 393,382    | 433,464    | 37,707     | 10.6%     | 77,789      | 21.9% |
| Other Services Total     | 844,996        | 928,309    | 1,018,338  | 83,313     | 9.9%      | 173,342     | 20.5% |
| Grand Total              | 14,141,189     | 15,215,765 | 16,395,769 | 1,074,576  | 7.6%      | 2,254,580   | 15.9% |

Source: IBM Market Expert 5.14 ortheastOhio.541#2



**Demand** ▶ **Estimated Current and Historic Market Demand** — **Inpatient** 

## Demand Inpatient Demand

## Inpatient Demand and CMI – Cleveland-Ohio

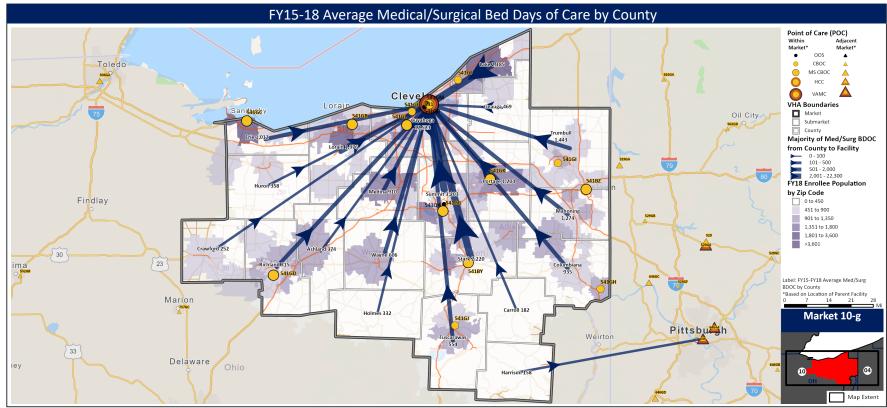
| Operating Beds from PTF Cube |      |      | Operating Beds<br>Reported by Field | Average Daily Census (ADC) |     |       |       |       |       |                  |
|------------------------------|------|------|-------------------------------------|----------------------------|-----|-------|-------|-------|-------|------------------|
| Bed Service                  | FY15 | FY16 | FY17                                | FY18                       |     | FY15  | FY16  | FY17  | FY18  | FY15-18 Change % |
| Medical                      | 115  | 115  | 115                                 | 115                        | 110 | 86.0  | 84.4  | 85.5  | 82.5  | -4.1%            |
| Surgery                      | 54   | 54   | 54                                  | 54                         | 56  | 34.8  | 31.8  | 32.5  | 30.7  | -11.8%           |
| Neurology                    | 6    | 6    | 6                                   | 6                          | 3   | 2.2   | 2.7   | 2.8   | 2.5   | 13.6%            |
| Total Med/Surg               | 175  | 175  | 175                                 | 175                        | 169 | 123.0 | 118.9 | 120.8 | 115.7 | -5.9%            |
| Mental Health                | 30   | 30   | 30                                  | 30                         | 30  | 24.4  | 22.3  | 23.7  | 23.2  | -4.9%            |
| RRTP*                        | 205  | 205  | 205                                 | 205                        | 184 | 166.8 | 147.5 | 152.2 | 154.1 | -7.6%            |
| Spinal Cord                  | 58   | 58   | 58                                  | 58                         | 58  | 27.6  | 47.3  | 50.3  | 46.0  | 66.7%            |
| Rehab Med                    | 18   | 18   | 18                                  | 18                         | 8   | 5.5   | 5.6   | 5.4   | 4.8   | -12.7%           |
| Blind                        | 15   | 15   | 15                                  | 15                         | 15  | 13.7  | 13.1  | 13.0  | 12.7  | -7.3%            |
| CLC                          | 173  | 173  | 173                                 | 173                        | 137 | 133.8 | 121.2 | 130.2 | 127.5 | -4.7%            |
| VAMC Total                   | 674  | 674  | 674                                 | 674                        | 601 | 494.8 | 475.9 | 495.6 | 484.0 | -2.2%            |

|                      |                | VAMC Case N    | ∕lix Index³    |                |             |             |             |             | Commercial<br>Case Mix |               |
|----------------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------|-------------|------------------------|---------------|
| Facility             | 2015<br>Unique | 2016<br>Unique | 2017<br>Unique | 2018<br>Unique | 2015<br>CMI | 2016<br>CMI | 2017<br>CMI | 2018<br>CMI | Median<br>CMI*         | High<br>CMI** |
| (541) Cleveland-Ohio | 5,301          | 5,051          | 5,134          | 5,216          | 1.51        | 1.48        | 1.50        | 1.48        | 1.60                   | 2.50          |

<sup>\*</sup>RRTP includes Domiciliary and CWT/TR Bed Services

<sup>\*\*</sup>Market: Within a 60 minute drive time of the VAMC





Source: 1. VSSC Treating Specialty Cube 2. Geocoded Enrollee File FY18Q4

## **Demand** ▶ **Medical/Surgical BDOC** — **FY15-18**, cont.

| County         | FY18 BDOC | FY18 ADC | % ADC | FY15-18 AVG BDOC | Majority Receiving Facility | % BDOC |
|----------------|-----------|----------|-------|------------------|-----------------------------|--------|
| Ashland, OH    | 427       | 1.2      | 28.5% | 375              | (V10) (541) Cleveland-Ohio  | 100.0% |
| Carroll, OH    | 160       | 0.4      | 22.0% | 182              | (V10) (541) Cleveland-Ohio  | 84.4%  |
| Columbiana, OH | 1,024     | 2.8      | 27.4% | 935              | (V10) (541) Cleveland-Ohio  | 75.6%  |
| Crawford, OH   | 238       | 0.7      | 23.7% | 252              | (V10) (541) Cleveland-Ohio  | 95.8%  |
| Cuyahoga, OH   | 17,920    | 49.1     | 25.6% | 17,523           | (V10) (541) Cleveland-Ohio  | 98.3%  |
| Erie, OH       | 986       | 2.7      | 24.4% | 1,012            | (V10) (541) Cleveland-Ohio  | 86.0%  |
| Geauga, OH     | 589       | 1.6      | 31.4% | 469              | (V10) (541) Cleveland-Ohio  | 94.9%  |
| Harrison, OH   | 96        | 0.3      | 15.2% | 158              | (V04) (646) Pittsburgh      | 92.7%  |
| Holmes, OH     | 424       | 1.2      | 31.9% | 332              | (V10) (541) Cleveland-Ohio  | 87.0%  |
| Huron, OH      | 297       | 0.8      | 20.7% | 359              | (V10) (541) Cleveland-Ohio  | 90.6%  |
| Lake, OH       | 2,227     | 6.1      | 25.5% | 2,185            | (V10) (541) Cleveland-Ohio  | 99.0%  |
| Lorain, OH     | 2,352     | 6.4      | 29.8% | 1,976            | (V10) (541) Cleveland-Ohio  | 95.5%  |
| Mahoning, OH   | 1,142     | 3.1      | 22.4% | 1,274            | (V10) (541) Cleveland-Ohio  | 92.3%  |
| Medina, OH     | 1,202     | 3.3      | 33.0% | 911              | (V10) (541) Cleveland-Ohio  | 97.3%  |
| Portage, OH    | 1,229     | 3.4      | 25.5% | 1,204            | (V10) (541) Cleveland-Ohio  | 97.9%  |
| Richland, OH   | 533       | 1.5      | 18.6% | 715              | (V10) (541) Cleveland-Ohio  | 97.0%  |
| Stark, OH      | 2,222     | 6.1      | 25.0% | 2,220            | (V10) (541) Cleveland-Ohio  | 95.8%  |
| Summit, OH     | 3,314     | 9.1      | 25.9% | 3,203            | (V10) (541) Cleveland-Ohio  | 97.3%  |

## **Demand**

## Medical/Surgical BDOC — FY15-18, cont.

| County         | FY18 BDOC | FY18 ADC | % ADC | FY15-18 AVG BDOC | Majority Receiving Facility | % BDOC |
|----------------|-----------|----------|-------|------------------|-----------------------------|--------|
| Trumbull, OH   | 1,630     | 4.5      | 28.2% | 1,443            | (V10) (541) Cleveland-Ohio  | 96.4%  |
| Tuscarawas, OH | 458       | 1.3      | 20.7% | 554              | (V10) (541) Cleveland-Ohio  | 93.0%  |
| Wayne, OH      | 522       | 1.4      | 21.5% | 606              | (V10) (541) Cleveland-Ohio  | 98.9%  |
| Total          | 38,992    | 106.8    | N/A   | 37,887           |                             | N/A    |



## **Demand**

## **Top DRGs for Medicine in FY18**

|                            | DRG  | In Market<br>BDOC | In Market BDOC<br>% of Total | In and Out of<br>Market BDOC | In and Out of Market<br>% of Total BDOC |
|----------------------------|--|-------------------|------------------------------|------------------------------|---|
| (V10) (541) Cleveland-Ohio | O (291) Heart Failure & Shock W Mcc                            | 895               | 3.5%                         | 992                          | 3.5%                                    |
|                            | O (286) Circulatory Disorders Except Ami, W Card Cath W Mcc    | 631               | 2.5%                         | 784                          | 2.8%                                    |
|                            | O (871) Septicemia W/o Mv 96+ Hours W Mcc                      | 734               | 2.9%                         | 781                          | 2.8%                                    |
|                            | O (554) Bone Diseases & Arthropathies W/o Mcc                  | 651               | 2.5%                         | 704                          | 2.5%                                    |
|                            | O (292) Heart Failure & Shock W Cc                             | 634               | 2.5%                         | 675                          | 2.4%                                    |
|                            | O (57) Degenerative Nervous System Disorders W/o Mcc           | 439               | 1.7%                         | 583                          | 2.1%                                    |
|                            | O (392) Esophagitis, Gastroent & Misc Digest Disorders W/o Mcc | 498               | 1.9%                         | 533                          | 1.9%                                    |
|                            | O (287) Circulatory Disorders Except Ami, W Card Cath W/o Mcc  | 363               | 1.4%                         | 523                          | 1.9%                                    |
|                            | O (603) Cellulitis W/o Mcc                                     | 445               | 1.7%                         | 491                          | 1.8%                                    |
|                            | O (194) Simple Pneumonia & Pleurisy W Cc                       | 435               | 1.7%                         | 447                          | 1.6%                                    |
|                            | Other  | 19968             | 77.7%                        | 21465                        | 76.7%                                   |
|                            | Total  | 25693             | 100.0%                       | 27978                        | 100.0%                                  |

Source: VSSC Treating Specialty Cube 4.2.V10.NortheastOhio



## Demand

## **Top DRGs for Medicine in FY18**

|                            | DRG  | FY18 BDOC | % of Total BDOC |
|----------------------------|--|-----------|-----------------|
| (V10) (541) Cleveland-Ohio | O (291) Heart Failure & Shock W Mcc                            | 944       | 3.5%            |
|                            | O (871) Septicemia W/o Mv 96+ Hours W Mcc                      | 750       | 2.8%            |
|                            | O (554) Bone Diseases & Arthropathies W/o Mcc                  | 660       | 2.5%            |
|                            | O (286) Circulatory Disorders Except Ami, W Card Cath W Mcc    | 657       | 2.5%            |
|                            | O (292) Heart Failure & Shock W Cc                             | 641       | 2.4%            |
|                            | O (57) Degenerative Nervous System Disorders W/o Mcc           | 538       | 2.0%            |
|                            | O (392) Esophagitis, Gastroent & Misc Digest Disorders W/o Mcc | 511       | 1.9%            |
|                            | O (287) Circulatory Disorders Except Ami, W Card Cath W/o Mcc  | 497       | 1.9%            |
|                            | O (603) Cellulitis W/o Mcc                                     | 456       | 1.7%            |
|                            | O (194) Simple Pneumonia & Pleurisy W Cc                       | 435       | 1.6%            |
|                            | Other  | 20,588    | 77.2%           |
|                            | Total  | 26,677    | 100.0%          |

Source: VSSC Treating Specialty Cube 4.2.V10.NortheastOhio



## **Demand** Top Medicine DRGs in the Community and Outside of the Market

|                               | DRG  | FY18 BDOC | % of Total BDOC |  |  |  |  |
|-------------------------------|--|-----------|-----------------|--|--|--|--|
| VA Care Outside of the Market | (847) CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W CC  | 83        | 9.2%            |  |  |  |  |
|                               | (552) MEDICAL BACK PROBLEMS W/O MCC                                | 52        | 5.8%            |  |  |  |  |
|                               | (840) LYMPHOMA & NON-ACUTE LEUKEMIA W MCC                          | 39        | 4.3%            |  |  |  |  |
|                               | (194) SIMPLE PNEUMONIA & PLEURISY W CC                             |           |                 |  |  |  |  |
|                               | (292) HEART FAILURE & SHOCK W CC                                   |           |                 |  |  |  |  |
|                               | (392) ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC       | 31        | 3.4%            |  |  |  |  |
|                               | (603) CELLULITIS W/O MCC   | 26        | 2.9%            |  |  |  |  |
|                               | (291) HEART FAILURE & SHOCK W MCC                                  | 26        | 2.9%            |  |  |  |  |
|                               | (592) SKIN ULCERS W MCC  | 25        | 2.8%            |  |  |  |  |
|                               | (948) SIGNS & SYMPTOMS W/O MCC                                     | 21        | 2.3%            |  |  |  |  |
|                               | Other  | 530       | 58.8%           |  |  |  |  |
|                               | Total  | 902       | 100.0%          |  |  |  |  |
| Care in the Community         | (871) SEPTICEMIA OR SEVERE SEPSIS W/O MV >96 HOURS W MCC           | 382       | 10.3%           |  |  |  |  |
|                               | (291) HEART FAILURE & SHOCK W MCC                                  | 189       | 5.1%            |  |  |  |  |
|                               | (189) PULMONARY EDEMA & RESPIRATORY FAILURE                        | 121       | 3.3%            |  |  |  |  |
|                               | (190) CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC                  | 98        | 2.6%            |  |  |  |  |
|                               | (207) RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT >96 HOURS  | 94        | 2.5%            |  |  |  |  |
|                               | (193) SIMPLE PNEUMONIA & PLEURISY W MCC                            | 73        | 2.0%            |  |  |  |  |
|                               | (308) CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC              | 72        | 1.9%            |  |  |  |  |
|                               | (683) RENAL FAILURE W CC   | 71        | 1.9%            |  |  |  |  |
|                               | (208) RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT <=96 HOURS | 67        | 1.8%            |  |  |  |  |
|                               | (281) ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W CC           | 67        | 1.8%            |  |  |  |  |
|                               | Other  | 2,474     | 66.7%           |  |  |  |  |
|                               | Total  | 3,708     | 100.0%          |  |  |  |  |

Note: Enrollees enrolled in a market and received care at a facility outside of their market



## **Demand**

## **Top DRGs for Surgery in FY18**

|                            | DRG   | In Market | In Market BDOC | In and Out of | In and Out of Market |
|----------------------------|---|-----------|----------------|---------------|----------------------|
|                            |   | BDOC      | % of Total     | Market BDOC   | % of Total BDOC      |
| (V10) (541) Cleveland-Ohio | O (4) Trach W Mv 96+ Hrs Or Pdx Exc Face, Mouth & Neck W/o Maj O.r.       | 424       | 4.6%           | 448           | 4.2%                 |
|                            | O (330) Major Small & Large Bowel Procedures W Cc                         | 384       | 4.2%           | 424           | 4.0%                 |
|                            | O (219) Cardiac Valve & Oth Maj Cardiothoracic Proc W/o Card Cath W Mcc   | 297       | 3.3%           | 402           | 3.8%                 |
|                            | O (853) Infectious & Parasitic Diseases W O.r. Procedure W Mcc            | 351       | 3.8%           | 390           | 3.6%                 |
|                            | O (3) Ecmo Or Trach W Mv 96+ Hrs Or Pdx Exc Face, Mouth & Neck W Maj O.r. | 159       | 1.7%           | 305           | 2.9%                 |
|                            | O (235) Coronary Bypass W/o Cardiac Cath W Mcc                            | 144       | 1.6%           | 299           | 2.8%                 |
|                            | O (329) Major Small & Large Bowel Procedures W Mcc                        | 245       | 2.7%           | 284           | 2.7%                 |
|                            | O (270) Tc - Allergic Reactions Age 0-17                                  | 198       | 2.2%           | 278           | 2.6%                 |
|                            | O (252) Other Vascular Procedures W Mcc                                   | 222       | 2.4%           | 276           | 2.6%                 |
|                            | O (253) Other Vascular Procedures W Cc                                    | 221       | 2.4%           | 265           | 2.5%                 |
|                            | Other   | 6,485     | 71.0%          | 7,324         | 68.5%                |
|                            | Total   | 9,130     | 100.0%         | 10,695        | 100.0%               |

Source: VSSC Treating Specialty Cube 4.3.V10.NortheastOhio



## Demand

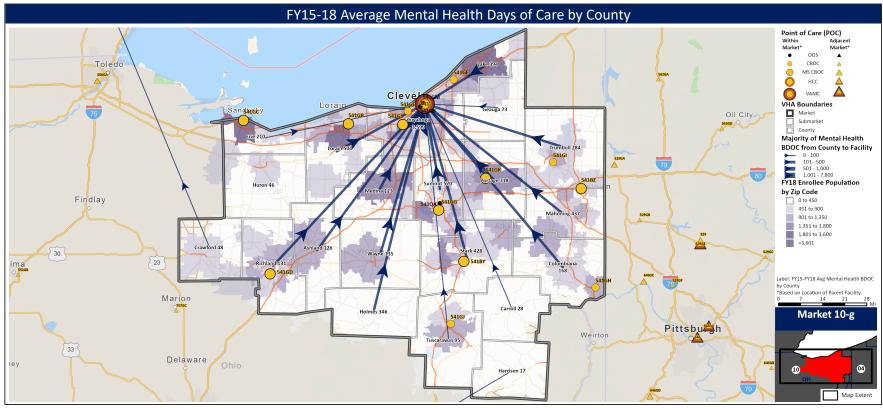
## Top Surgery DRGs in the Community and Outside of the Market

|                               | DRG  | FY18 BDOC | % of Total BDOC |
|-------------------------------|--|-----------|-----------------|
| VA Care Outside of the Market | (3) ECMO OR TRACH W MV >96 HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.    | 75        | 17.4%           |
|                               | (876) O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS               | 38        | 8.8%            |
|                               | (5) LIVER TRANSPLANT W MCC OR INTESTINAL TRANSPLANT                        | 31        | 7.2%            |
|                               | (6) LIVER TRANSPLANT W/O MCC   | 21        | 4.9%            |
|                               | (330) MAJOR SMALL & LARGE BOWEL PROCEDURES W CC                            | 20        | 4.7%            |
|                               | (17) AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC                          | 18        | 4.2%            |
|                               | (652) KIDNEY TRANSPLANT  | 17        | 4.0%            |
|                               | (464) WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W CC       | 14        | 3.3%            |
|                               | (242) PERMANENT CARDIAC PACEMAKER IMPLANT W MCC                            | 14        | 3.3%            |
|                               | (617) AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT, & METABOL DIS W CC      | 13        | 3.0%            |
|                               | Other  | 169       | 39.3%           |
|                               | Total  | 430       | 100.0%          |
| Care in the Community         | (25) CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W MCC               | 216       | 7.5%            |
|                               | (853) INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W MCC               | 138       | 4.8%            |
|                               | (3) ECMO OR TRACH W MV >96 HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.    | 112       | 3.9%            |
|                               | (470) MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W/O MCC   | 105       | 3.6%            |
|                               | (246) PERC CARDIOVASC PROC W DRUG-ELUTING STENT W MCC OR 4+ VESSELS/STENTS | 99        | 3.4%            |
|                               | (1) HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC               | 95        | 3.3%            |
|                               | (163) MAJOR CHEST PROCEDURES W MCC   | 79        | 2.7%            |
|                               | (460) SPINAL FUSION EXCEPT CERVICAL W/O MCC                                | 76        | 2.6%            |
|                               | (472) CERVICAL SPINAL FUSION W CC  | 75        | 2.6%            |
|                               | (247) PERC CARDIOVASC PROC W DRUG-ELUTING STENT W/O MCC                    | 71        | 2.5%            |
|                               | Other  | 1,829     | 63.2%           |
|                               | Total Total  | 2,895     | 100.0%          |

Note: Enrollees enrolled in a market and received care at a facility outside of their market









## **Demand** ▶ **Mental Health BDOC – FY15-18, cont.**

| County         | FY18 BDOC | FY15-18 AVG BDOC | Majority Receiving Facility    | % BDOC |
|----------------|-----------|------------------|--------------------------------|--------|
| Ashland, OH    | 12        | 127              | (V10) (541) Cleveland-Ohio     | 100.0% |
| Carroll, OH    | 32        | 28               | (V10) (541) Cleveland-Ohio     | 100.0% |
| Columbiana, OH | 96        | 169              | (V10) (541) Cleveland-Ohio     | 88.5%  |
| Crawford, OH   | 93        | 48               | (V10) (506) Ann Arbor-Michigan | 53.8%  |
| Cuyahoga, OH   | 3,571     | 3,599            | (V10) (541) Cleveland-Ohio     | 92.1%  |
| Erie, OH       | 403       | 210              | (V10) (541) Cleveland-Ohio     | 44.7%  |
| Geauga, OH     | 97        | 73               | (V10) (541) Cleveland-Ohio     | 69.1%  |
| Harrison, OH   | 4         | 17               | (V10) (538) Chillicothe-Ohio   | 100.0% |
| Holmes, OH     | 275       | 346              | (V10) (541) Cleveland-Ohio     | 90.2%  |
| Huron, OH      | N/A       | 46               | (V06) (637) Asheville          | N/A    |
| Lake, OH       | 294       | 395              | (V10) (541) Cleveland-Ohio     | 83.3%  |
| Lorain, OH     | 496       | 504              | (V10) (541) Cleveland-Ohio     | 94.8%  |
| Mahoning, OH   | 659       | 438              | (V10) (541) Cleveland-Ohio     | 94.4%  |
| Medina, OH     | 170       | 124              | (V10) (541) Cleveland-Ohio     | 99.4%  |
| Portage, OH    | 538       | 318              | (V10) (541) Cleveland-Ohio     | 94.4%  |
| Richland, OH   | 47        | 131              | (V10) (541) Cleveland-Ohio     | 93.6%  |
| Stark, OH      | 513       | 428              | (V10) (541) Cleveland-Ohio     | 87.3%  |
| Summit, OH     | 575       | 571              | (V10) (541) Cleveland-Ohio     | 85.0%  |
| Trumbull, OH   | 246       | 284              | (V10) (541) Cleveland-Ohio     | 72.0%  |
| Tuscarawas, OH | 110       | 96               | (V10) (541) Cleveland-Ohio     | 86.4%  |



## **Demand** ▶ **Mental Health BDOC – FY15-18, cont.**

| County    | FY18 BDOC | FY15-18 AVG BDOC | Majority Receiving Facility | % BDOC |
|-----------|-----------|------------------|-----------------------------|--------|
| Wayne, OH | 103       | 136              | (V10) (541) Cleveland-Ohio  | 100.0% |
| Total     | 8,334     | 8,087            |                             |        |



## Demand

## **Top DRGs for Mental Health in FY18**

|                            | DRG  | In Market<br>BDOC | In Market BDOC<br>% of Total | In and Out of<br>Market BDOC | In and Out of Market<br>% of Total BDOC |
|----------------------------|--|-------------------|------------------------------|------------------------------|---|
| (V10) (541) Cleveland-Ohio | N (885) Psychoses  | 4668              | 64.9%                        | 5260                         | 64.9%                                   |
|                            | O (884) Organic Disturbances & Mental Retardation            | 924               | 12.8%                        | 950                          | 11.7%                                   |
|                            | N (881) Depressive neuroses                                  | 672               | 9.3%                         | 738                          | 9.1%                                    |
|                            | O (880) Acute Adjustment Reaction & Psychosocial Dysfunction | 588               | 8.2%                         | 703                          | 8.7%                                    |
|                            | N (882) Neuroses except depressive                           | 189               | 2.6%                         | 272                          | 3.4%                                    |
|                            | O (883) Disorders Of Personality & Impulse Control           | 153               | 2.1%                         | 179                          | 2.2%                                    |
|                            | Total  | 7194              | 100.0%                       | 8102                         | 100.0%                                  |

Source: VSSC Treating Specialty Cube 4.5.V10.NortheastOhio



## **Demand** Top Mental Health DRGs in the Community and Outside of the Market

|                               | DRG  | FY18 BDOC | % of Total BDOC |  |  |  |  |
|-------------------------------|--|-----------|-----------------|--|--|--|--|
| VA Care Outside of the Market | (885) PSYCHOSES  | 747       | 80.3%           |  |  |  |  |
|                               | (881) DEPRESSIVE NEUROSES                                  | 85        | 9.1%            |  |  |  |  |
|                               | (880) ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION |           |                 |  |  |  |  |
|                               | (882) NEUROSES EXCEPT DEPRESSIVE                           | 42        | 4.5%            |  |  |  |  |
|                               | (884) ORGANIC DISTURBANCES & INTELLECTUAL DISABILITY       | 10        | 1.1%            |  |  |  |  |
|                               | 1  | 0.1%      |                 |  |  |  |  |
|                               | Total  | 930       | 100.0%          |  |  |  |  |
| Care in the Community         | (885) PSYCHOSES  | 206       | 92.8%           |  |  |  |  |
|                               | (884) ORGANIC DISTURBANCES & INTELLECTUAL DISABILITY       | 12        | 5.4%            |  |  |  |  |
|                               | (880) ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION | 3         | 1.4%            |  |  |  |  |
|                               | (882) NEUROSES EXCEPT DEPRESSIVE                           | 1         | 0.5%            |  |  |  |  |
|                               | Total  | 222       | 100.0%          |  |  |  |  |

<sup>\*</sup>Enrollees enrolled in a market and received care at a facility outside of their market



## **Demand** Community Care (Inpatient)

| FY16-18 Medicine NVCC (ADC)    |      |      |      |  |  |  |  |  |  |
|--------------------------------|------|------|------|--|--|--|--|--|--|
| Vendor                         | FY16 | FY17 | FY18 |  |  |  |  |  |  |
| UNIV HOSPS CLEVELAND MED CTR   | 0.3  | 0.4  | 1.9  |  |  |  |  |  |  |
| MERCY MED CTR                  | 0.2  | 0.3  | 0.7  |  |  |  |  |  |  |
| ROBINSON MEMORIAL HOSP         | 0.1  | 0.2  | 0.6  |  |  |  |  |  |  |
| AULTMAN HOSPITAL               | 0.3  | 0.4  | 0.5  |  |  |  |  |  |  |
| EAST LIVERPOOL C HOSP          | 0.1  | 0.2  | 0.4  |  |  |  |  |  |  |
| EMH REGIONAL MEDICAL CENTER    | 0.0  | 0.2  | 0.4  |  |  |  |  |  |  |
| MERCY HLTH YOUNGSTOWN LLC      | 0.0  | 0.2  | 0.4  |  |  |  |  |  |  |
| HUMILITY OF MARY HLTH PARTNERS | 0.3  | 0.2  | 0.4  |  |  |  |  |  |  |
| SUMMA HEALTH SYSTEM            | N/A  | N/A  | 0.3  |  |  |  |  |  |  |
| SUMMA HLTH SYS HOSP            | 0.1  | 0.1  | 0.3  |  |  |  |  |  |  |
| All Other Vendors              | 5.0  | 4.6  | 4.3  |  |  |  |  |  |  |
| Community Total (ADC)          | 6.5  | 6.9  | 10.3 |  |  |  |  |  |  |

| FY16-18 Surgery NVCC (ADC)   |      |      |      |  |  |  |  |  |  |
|------------------------------|------|------|------|--|--|--|--|--|--|
| Vendor                       | FY16 | FY17 | FY18 |  |  |  |  |  |  |
| UNIV HOSPS CLEVELAND MED CTR | 0.6  | 1.0  | 3.2  |  |  |  |  |  |  |
| CLEVELAND CL HOSP            | 0.1  | 0.0  | 0.6  |  |  |  |  |  |  |
| CLEVELAND CL FDN             | 0.2  | 0.9  | 0.4  |  |  |  |  |  |  |
| MERCY MED CTR                | 0.0  | 0.1  | 0.3  |  |  |  |  |  |  |
| UNIV HOSP OF CLEVELAND       | 0.2  | 0.7  | 0.3  |  |  |  |  |  |  |
| AULTMAN HOSPITAL             | 0.2  | 0.2  | 0.2  |  |  |  |  |  |  |
| MERCY HLTH YOUNGSTOWN LLC    | N/A  | 0.1  | 0.2  |  |  |  |  |  |  |
| SUMMA HEALTH SYSTEM          | N/A  | N/A  | 0.2  |  |  |  |  |  |  |
| METROHEALTH SYSTEM           | N/A  | N/A  | 0.2  |  |  |  |  |  |  |
| SUMMA HLTH SYS HOSP          | 0.0  | 0.0  | 0.2  |  |  |  |  |  |  |
| All Other Vendors            | 6.1  | 2.7  | 1.9  |  |  |  |  |  |  |
| Community Total (ADC)        | 7.5  | 5.7  | 7.8  |  |  |  |  |  |  |

| FY16-18 Psych NVCC (ADC)     |      |      |      |  |  |  |  |  |  |  |
|------------------------------|------|------|------|--|--|--|--|--|--|--|
| Vendor                       | FY16 | FY17 | FY18 |  |  |  |  |  |  |  |
| UNIV HOSPS CLEVELAND MED CTR | N/A  | 0.0  | 0.1  |  |  |  |  |  |  |  |
| EAST LIVERPOOL C HOSP        | N/A  | 0.0  | 0.1  |  |  |  |  |  |  |  |
| SUMMA HEALTH SYSTEM          | N/A  | N/A  | 0.1  |  |  |  |  |  |  |  |
| SOUTHWEST GENERAL HEALTH     | N/A  | 0.0  | 0.1  |  |  |  |  |  |  |  |
| PARMA COMM GEN HOSP          | N/A  | N/A  | 0.0  |  |  |  |  |  |  |  |
| AULTMAN HOSPITAL             | 0.1  | 0.0  | 0.0  |  |  |  |  |  |  |  |
| AKRON GENERAL MED CNTR       | 0.0  | 0.0  | 0.0  |  |  |  |  |  |  |  |
| SUMMA HLTH SYS HOSP          | 0.1  | N/A  | 0.0  |  |  |  |  |  |  |  |
| MERCY HLTH YOUNGSTOWN LLC    | N/A  | N/A  | 0.0  |  |  |  |  |  |  |  |
| FIRELANDS REGL HLTH SYSTEM   | 0.0  | 0.0  | 0.0  |  |  |  |  |  |  |  |
| All Other Vendors            | 0.3  | 0.2  | 0.1  |  |  |  |  |  |  |  |
| Community Total (ADC)        | 0.4  | 0.3  | 0.5  |  |  |  |  |  |  |  |
|                              |      |      |      |  |  |  |  |  |  |  |

Source: 1. Office of Community Care 4.17.V10.NortheastOhio.541



## **Demand** NVCC FY16-18 – Inpatient BDOC

| Sector/ County Name |                 |                | Medicine |      |      | Surgery |      |      | Mental Health |      |      |
|---------------------|-----------------|----------------|----------|------|------|---------|------|------|---------------|------|------|
| Sector              | County Name     | 2017 Enrollees | FY16     | FY17 | FY18 | FY16    | FY17 | FY18 | FY16          | FY17 | FY18 |
| 10-g-9-A            | Cuyahoga, OH    | 32,883         | 535      | 610  | 737  | 1,047   | 579  | 917  | 103           | 47   | 47   |
|                     | Sector Subtotal | 32,883         | 535      | 610  | 737  | 1,047   | 579  | 917  | 103           | 47   | 47   |
| 10-g-9-B            | Geauga, OH      | 1,897          | 32       | 42   | 58   | 67      | 22   | 39   | N/A           | N/A  | N/A  |
| 10-g-9-B            | Lake, OH        | 7,150          | 80       | 99   | 203  | 141     | 63   | 123  | N/A           | 3    | 1    |
| 10-g-9-B            | Portage, OH     | 4,511          | 77       | 128  | 278  | 39      | 49   | 134  | 7             | N/A  | 4    |
| 10-g-9-B            | Trumbull, OH    | 7,369          | 141      | 141  | 213  | 87      | 145  | 129  | 29            | 26   | 4    |
|                     | Sector Subtotal | 20,927         | 330      | 410  | 752  | 334     | 279  | 425  | 36            | 29   | 9    |
| 10-g-9-C            | Ashland, OH     | 1,747          | 40       | 27   | 39   | 31      | 11   | 29   | N/A           | N/A  | 2    |
| 10-g-9-C            | Crawford, OH    | 1,584          | 35       | 16   | 22   | 35      | 42   | 59   | N/A           | N/A  | N/A  |
| 10-g-9-C            | Erie, OH        | 3,173          | 61       | 48   | 91   | 93      | 83   | 54   | N/A           | 16   | 34   |
| 10-g-9-C            | Holmes, OH      | 564            | 73       | 64   | 91   | 3       | 12   | 27   | 51            | N/A  | 44   |
| 10-g-9-C            | Huron, OH       | 2,236          | 51       | 15   | 49   | 23      | 25   | 13   | N/A           | 4    | N/A  |
| 10-g-9-C            | Richland, OH    | 4,831          | 94       | 171  | 55   | 91      | 51   | 71   | N/A           | 14   | N/A  |
| 10-g-9-C            | Wayne, OH       | 2,939          | 32       | 13   | 67   | 28      | 37   | 30   | N/A           | N/A  | N/A  |
|                     | Sector Subtotal | 17,074         | 386      | 354  | 414  | 304     | 261  | 283  | 51            | 34   | 80   |
| 10-g-9-D            | Carroll, OH     | 696            | 27       | 16   | 43   | 15      | 108  | 28   | N/A           | 5    | 5    |
| 10-g-9-D            | Columbiana, OH  | 4,057          | 83       | 137  | 182  | 32      | 34   | 131  | N/A           | 13   | 2    |
| 10-g-9-D            | Harrison, OH    | 604            | 1        | 6    | 0    | 7       | 7    | N/A  | N/A           | N/A  | N/A  |
| 10-g-9-D            | Tuscarawas, OH  | 3,206          | 71       | 129  | 142  | 44      | 55   | 20   | 5             | N/A  | 6    |
|                     | Sector Subtotal | 8,563          | 182      | 288  | 367  | 98      | 204  | 179  | 5             | 18   | 13   |
| 10-g-9-E            | Summit, OH      | 13,659         | 334      | 174  | 426  | 215     | 192  | 330  | 22            | 23   | 20   |
|                     | Sector Subtotal | 13,659         | 334      | 174  | 426  | 215     | 192  | 330  | 22            | 23   | 20   |
| 10-g-9-F            | Lorain, OH      | 9,251          | 146      | 140  | 255  | 200     | 110  | 188  | 26            | N/A  | 8    |
| 10-g-9-F            | Medina, OH      | 4,265          | 18       | 19   | 108  | 29      | 64   | 93   | N/A           | 1    | 12   |
|                     | Sector Subtotal | 13,516         | 164      | 159  | 363  | 229     | 174  | 281  | 26            | 1    | 20   |
| 10-g-9-G            | Mahoning, OH    | 7,825          | 256      | 215  | 284  | 152     | 113  | 111  | 7             | 27   | 14   |

Source: VHA Office of Community Care 4.12.V10.NortheastOhio





## **Demand** NVCC FY16-18 – Inpatient BDOC, cont.

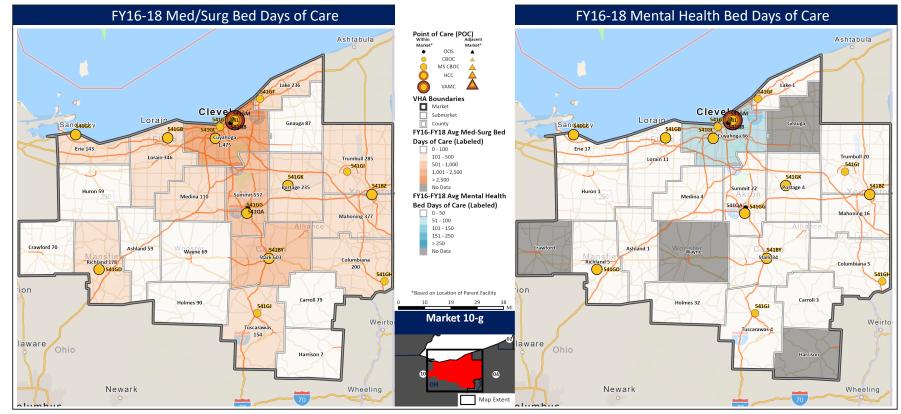
| Sector/ County Name |                 |                | Medicine |       |       | Surgery |       |       | Mental Health |      |      |
|---------------------|-----------------|----------------|----------|-------|-------|---------|-------|-------|---------------|------|------|
| Sector              | County Name     | 2017 Enrollees | FY16     | FY17  | FY18  | FY16    | FY17  | FY18  | FY16          | FY17 | FY18 |
|                     | Sector Subtotal | 7,825          | 256      | 215   | 284   | 152     | 113   | 111   | 7             | 27   | 14   |
| 10-g-9-H            | Stark, OH       | 11,717         | 230      | 319   | 365   | 315     | 212   | 369   | 71            | 11   | 19   |
|                     | Sector Subtotal | 11,717         | 230      | 319   | 365   | 315     | 212   | 369   | 71            | 11   | 19   |
|                     | Market Total    | 126,164        | 2,417    | 2,529 | 3,708 | 2,694   | 2,014 | 2,895 | 321           | 190  | 222  |

**Source: VHA Office of Community Care** 

4.12.V10.NortheastOhio#2



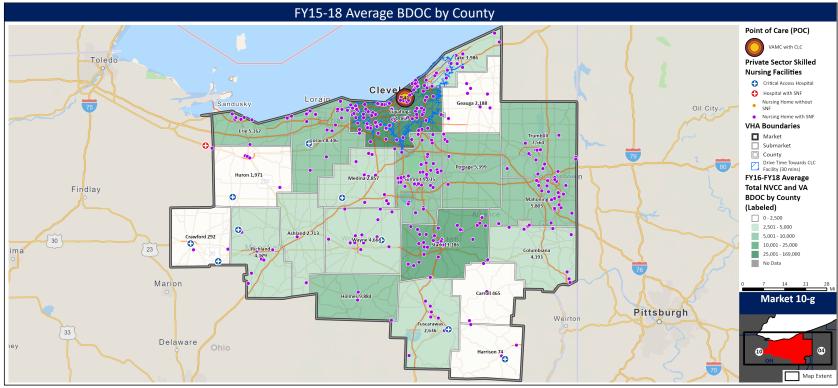
## **Demand** NVCC FY16-18 – Inpatient Utilization Patterns



**Source: VHA Office of Community Care** 

4.16.V10.NortheastOhio





Note: Data is only for fee basis and does not encompass all Community Care

Source: 1. VSSC Treating Specialty Cube 2. VSSC NVCC Cube 3. Definitive HC

# **Demand** Nursing Home BDOC Distribution, cont.

| County         | FY18 Non-VA Community Care* | FY18 VA | FY18 Total BDOC |
|----------------|-----------------------------|---------|-----------------|
| Ashland, OH    | 2,500                       | 389     | 2,889           |
| Carroll, OH    | 190                         | 40      | 230             |
| Columbiana, OH | 4,325                       | 219     | 4,544           |
| Crawford, OH   | 71                          | 118     | 189             |
| Cuyahoga, OH   | 32,756                      | 24,537  | 57,293          |
| Erie, OH       | 2,450                       | 4,248   | 6,698           |
| Geauga, OH     | 2,094                       | 92      | 2,186           |
| Harrison, OH   |                             | 21      | 21              |
| Holmes, OH     | 7,663                       | 820     | 8,483           |
| Huron, OH      | 2,161                       | 58      | 2,219           |
| Lake, OH       | 2,517                       | 1,692   | 4,209           |
| Lorain, OH     | 8,165                       | 1,557   | 9,722           |
| Mahoning, OH   | 4,148                       | 1,069   | 5,217           |
| Medina, OH     | 1,771                       | 1,576   | 3,347           |
| Portage, OH    | 5,453                       | 1,281   | 6,734           |
| Richland, OH   | 5,336                       | 556     | 5,892           |
| Stark, OH      | 13,248                      | 1,817   | 15,065          |
| Summit, OH     | 7,095                       | 2,883   | 9,978           |
| Trumbull, OH   | 8,301                       | 771     | 9,072           |
| Tuscarawas, OH | 2,981                       | 326     | 3,307           |

<sup>\*</sup>Data is only for fee basis and does not encompass all Community Care

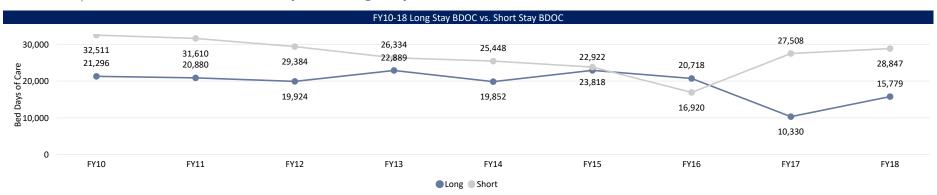


# **Demand** Nursing Home BDOC Distribution, cont.

| County    | FY18 Non-VA Community Care* | FY18 VA | FY18 Total BDOC |
|-----------|-----------------------------|---------|-----------------|
| Wayne, OH | 4,784                       | 556     | 5,340           |
| Total     | 118,009                     | 44,626  | 162,635         |

<sup>\*</sup>Data is only for fee basis and does not encompass all Community Care

# **Demand** In-House LTSS Short Stays vs. Long Stays BDOC



|             |       |        |        | FY10   | )-18 Long Stay BDO | C vs. Short Stay B | DOC    |        |        |        |          |
|-------------|-------|--------|--------|--------|--------------------|--------------------|--------|--------|--------|--------|----------|
| Stay        | Age   | FY10   | FY11   | FY12   | FY13               | FY14               | FY15   | FY16   | FY17   | FY18   | % Change |
| Long        | < 40  | 365    | 0      | 0      | 0                  | 0                  | 0      | 52     | 0      | 0      | -100.0%  |
|             | 40-54 | 1,960  | 1,556  | 2,275  | 1,986              | 1,651              | 1,641  | 988    | 367    | 539    | -72.5%   |
|             | 55-64 | 6,574  | 6,956  | 5,351  | 4,296              | 4,833              | 4,016  | 3,382  | 2,026  | 1,752  | -73.4%   |
|             | 65-79 | 6,153  | 6,265  | 7,180  | 10,018             | 7,588              | 9,633  | 10,105 | 4,029  | 7,091  | 15.2%    |
|             | 80+   | 6,244  | 6,103  | 5,119  | 6,588              | 5,780              | 7,632  | 6,192  | 3,908  | 6,394  | 2.4%     |
| Total Long  |       | 21,296 | 20,880 | 19,924 | 22,889             | 19,852             | 22,922 | 20,718 | 10,330 | 15,779 | -25.9%   |
| Short       | < 40  | 0      | 73     | 62     | 87                 | 0                  | 4      | 81     | 251    | 49     | 0.0%     |
|             | 40-54 | 2,129  | 1,787  | 1,067  | 1,687              | 1,592              | 1,072  | 620    | 593    | 893    | -58.0%   |
|             | 55-64 | 9,202  | 9,536  | 8,044  | 6,349              | 5,609              | 4,590  | 3,066  | 5,126  | 4,675  | -49.2%   |
|             | 65-79 | 10,984 | 8,924  | 8,571  | 8,446              | 9,554              | 10,245 | 9,184  | 15,844 | 17,048 | 55.2%    |
|             | 80+   | 10,169 | 11,277 | 11,579 | 9,765              | 8,693              | 7,907  | 3,969  | 5,674  | 6,143  | -39.6%   |
| Total Short |       | 32,511 | 31,610 | 29,384 | 26,334             | 25,448             | 23,818 | 16,920 | 27,508 | 28,847 | -11.3%   |

Source: VSSC Treating Specialty Cube 4.8.V10.NortheastOhio



# **Demand** Community Nursing Home vs. In-House BDOC

| VA (In-House)                       |   |                                      |          |                  |  |  |  |  |  |  |  |
|-------------------------------------|---|--------------------------------------|----------|------------------|--|--|--|--|--|--|--|
| Facility                            | Operating Beds Reported in the PTF Cube | Operating Beds Reported by the Field | FY18 ADC | NVCC, FY18 ADC** |  |  |  |  |  |  |  |
| (V10) (541) Cleveland-Ohio          | 173                                     | 137                                  | 127.5    | 345.8            |  |  |  |  |  |  |  |
| (V10) (541A0) Cleveland-Brecksville | N/A                                     | N/A                                  | N/A      | N/A              |  |  |  |  |  |  |  |
| Total                               | 173                                     | 137                                  | 127.5    | 345.8            |  |  |  |  |  |  |  |

| Community Statistics***                                |                |          |           |                           |  |  |  |  |  |  |  |
|--|----------------|----------|-----------|---------------------------|--|--|--|--|--|--|--|
| Facility   | Operating Beds | FY18 ADC | Occupancy | Potential Available Beds* |  |  |  |  |  |  |  |
| (V10) (541) Cleveland-Ohio 37,568 31,066.0 82.8% 4,623 |                |          |           |                           |  |  |  |  |  |  |  |

<sup>\*</sup>Potential Available Beds is defined as Operating Beds less ADC based on a 95% occupancy

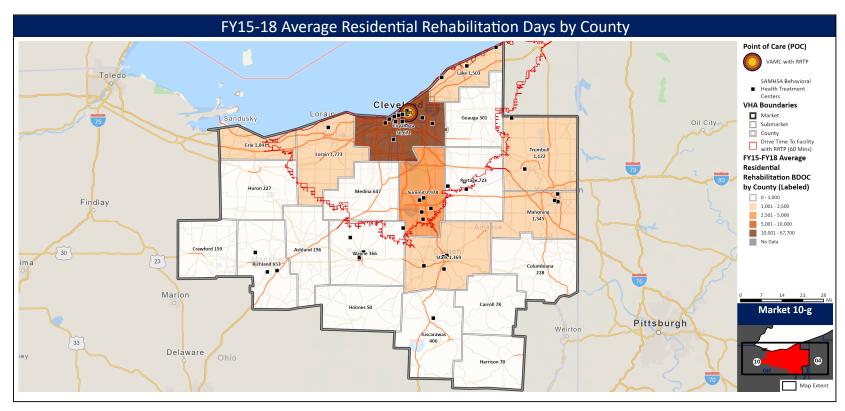
<sup>\*\*</sup>Data is only for fee basis and does not encompass all Community Care

<sup>\*\*\*</sup>SNFs within a 30 minute drive time of facility. Does not include SNFs in which the ADC overly exceeded operating beds (>30%) as it indicates a coding issue



# Demand

## **Residential Rehab BDOC**



## **Demand**



Medina, OH

Richland, OH

### Care Received in a VAMC/VA Facility (not limited to VA Facilities in the market) Top 10 Market Counties FY15 BDOC FY16 BDOC FY17 BDOC FY18 BDOC Cuyahoga, OH 40,629 32,359 37,613 36,081 Summit, OH 2,167 2,885 3,543 3,318 Lorain, OH 1,894 1,351 1,950 1,896 Mahoning, OH 1,471 1,514 1,559 1,635 Lake, OH 1,242 1,966 1,172 1,632 Stark, OH 929 1,301 1,833 1,412 Erie, OH 1,217 610 943 1,395 Trumbull, OH 829 1,121 1,216 1,323

566

759

606

398

804

785

613

670



# **Demand**

# Surgical Cases FY15-18 – Cleveland-Ohio

| Facility                   | Setting    | Specialty               | FY15  | FY16  | FY17  | FY18  | FY15-18 % Chg |
|----------------------------|------------|-------------------------|-------|-------|-------|-------|---------------|
| (V10) (541) Cleveland-Ohio | Inpatient  | ANESTHESIOLOGY          | 4     | 1     | 2     | 2     | -50.0%        |
|                            |            | CARDIAC SURGERY         | 214   | 190   | 173   | 228   | 6.5%          |
|                            |            | EAR, NOSE, THROAT (ENT) | 120   | 103   | 79    | 49    | -59.2%        |
|                            |            | GENERAL SURGERY         | 443   | 420   | 382   | 394   | -11.1%        |
|                            |            | NEUROSURGERY            | N/A   | 2     | 23    | 19    | N/A           |
|                            |            | OB/GYN                  | 25    | 9     | 9     | 4     | -84.0%        |
|                            |            | OPHTHALMOLOGY           | 30    | 33    | 18    | 10    | -66.7%        |
|                            |            | ORAL SURGERY            | 8     | 7     | 7     | 2     | -75.0%        |
|                            |            | ORTHOPEDICS             | 249   | 251   | 156   | 96    | -61.4%        |
|                            |            | PERIPHERAL VASCULAR     | 434   | 453   | 431   | 470   | 8.3%          |
|                            |            | PLASTIC SURGERY         | 13    | 16    | 9     | 23    | 76.9%         |
|                            |            | PODIATRY                | 159   | 178   | 207   | 212   | 33.3%         |
|                            |            | THORACIC SURGERY        | 180   | 183   | 195   | 54    | -70.0%        |
|                            |            | UROLOGY                 | 178   | 159   | 131   | 150   | -15.7%        |
|                            |            | Inpatient Total         | 2,057 | 2,005 | 1,822 | 1,713 | -16.7%        |
|                            | Outpatient | ANESTHESIOLOGY          | 28    | 30    | 33    | 26    | -7.1%         |
|                            |            | CARDIAC SURGERY         | 1     | 6     | 3     | 3     | 200.0%        |
|                            |            | EAR, NOSE, THROAT (ENT) | 362   | 373   | 398   | 438   | 21.0%         |
|                            |            | GENERAL SURGERY         | 708   | 652   | 798   | 792   | 11.9%         |
|                            |            | NEUROSURGERY            | N/A   | N/A   | 21    | 47    | N/A           |
|                            |            | OB/GYN                  | 79    | 113   | 118   | 110   | 39.2%         |
|                            |            | OPHTHALMOLOGY           | 449   | 325   | 97    | 132   | -70.6%        |

Source: VSSC OR Productivity Cube 4.11.V10.NortheastOhio.541



# **Demand**

# **Surgical Cases FY15-18 – Cleveland-Ohio, cont.**

| Facility                   | Setting    | Specialty           | FY15  | FY16  | FY17  | FY18  | FY15-18 % Chg |
|----------------------------|------------|---------------------|-------|-------|-------|-------|---------------|
| (V10) (541) Cleveland-Ohio | Outpatient | ORAL SURGERY        | 19    | 11    | 20    | 10    | -47.4%        |
|                            |            | ORTHOPEDICS         | 356   | 405   | 544   | 559   | 57.0%         |
|                            |            | PERIPHERAL VASCULAR | 9     | 11    | 12    | 5     | -44.4%        |
|                            |            | PLASTIC SURGERY     | 167   | 113   | 131   | 160   | -4.2%         |
|                            |            | PODIATRY            | 222   | 213   | 277   | 303   | 36.5%         |
|                            |            | THORACIC SURGERY    | 3     | 13    | 27    | 23    | 666.7%        |
|                            |            | UROLOGY             | 597   | 518   | 535   | 676   | 13.2%         |
|                            |            | Outpatient Total    | 3,000 | 2,783 | 3,014 | 3,284 | 9.5%          |
| Facility Total             | Total      |                     | 5,057 | 4,788 | 4,836 | 4,997 | -1.2%         |

Source: VSSC OR Productivity Cube 4.11.V10.NortheastOhio.541#2

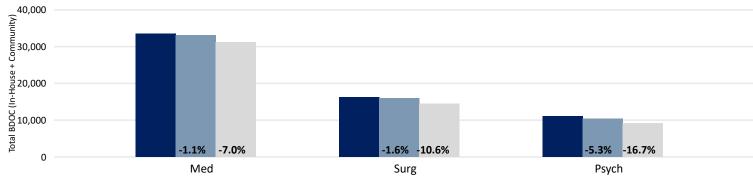


**Demand** ▶ **Estimated Future Market Demand** — **Inpatient** 

### BY17 Market Utilization Projections (Acute Inpatient) — Northeast Ohio Market **Demand**

| BY17 VISN 10 Northeast Ohio Market Utilization Projections BDOC |        |        |        |        |        |        |        |        |       |  |  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|--|--|
|   |        | FY17   |        |        | FY22   |        | FY27   |        |       |  |  |
|   | Med    | Surg   | Psych  | Med    | Surg   | Psych  | Med    | Surg   | Psych |  |  |
| In-House BDOC   | 29,670 | 12,921 | 10,328 | 29,337 | 12,673 | 9,770  | 27,602 | 11,516 | 8,595 |  |  |
| Community BDOC  | 3,881  | 3,339  | 696    | 3,830  | 3,324  | 666    | 3,605  | 3,016  | 586   |  |  |
| Total BDOC  | 33,551 | 16,260 | 11,024 | 33,167 | 15,997 | 10,436 | 31,206 | 14,532 | 9,181 |  |  |
| ADC By HSPG   | 92.0   | 44.5   | 30.0   | 91.0   | 43.8   | 29.0   | 85.0   | 39.8   | 25.0  |  |  |
| Total ADC   |        | 166.7  |        | 163.3  |        |        | 150.5  |        |       |  |  |
| Total Bed Need*   |        | 196    |        | 192    |        |        | 177    |        |       |  |  |

\*Total Bed Need is based on a 85% occupancy rate



Note: Percent changes are for 5 and 10 years

●2017 **●**2022 **●**2027

Total Bed Need\*

867

### VISN 10: Northeast Ohio Market

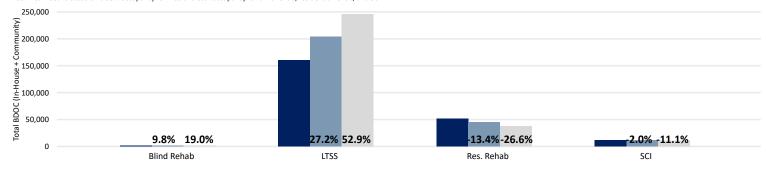
### BY17 Market Utilization Projections (Other Inpatient) — Northeast Ohio Market **Demand**

### **BY17 VISN 10 Northeast Ohio Market Utilization Projections BDOC** FY27 **FY17** FY22 Blind SCI Blind SCI Blind SCI ADC By HSPG 4.2 439.7 142.3 32.9 4.6 559.3 123.2 32.2 4.9 672.5 104.4 29.2 **Total BDOC** 1,516 160,506 51.931 12.003 1.665 204.135 44.977 11.765 1.804 245.473 38.096 10.667 Community BDOC 0 115,991 0 159,297 0 0 200,280 0 0 0 0 0 44,977 10,667 In-House BDOC 1,516 44,515 51,931 12,003 1,665 44,838 11,765 1,804 45,193 38,096 **Total ADC** 619.1 719.3 811.1

772

\*Total Bed Need is based on a 95% occupancy for LTSS and 85% occupancy for blind rehab, residential rehab, and SCI

669



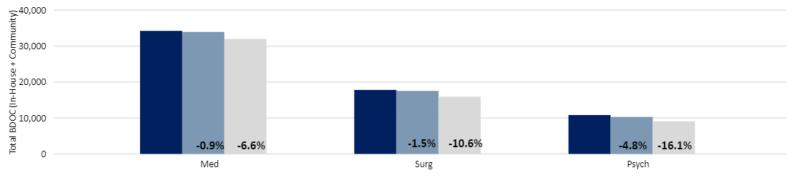
Note: Percent changes are for 5 and 10 years

**2017 2022 2027** 

# Demand BY17 Parent Facility Utilization Projections (Acute Inpatient) — Cleveland-Ohio VAMC

| BY17 Cleveland-Ohio VAMC Utilization Projections BDOC |        |        |        |                 |        |        |              |        |       |  |  |
|---|--------|--------|--------|-----------------|--------|--------|--------------|--------|-------|--|--|
|   |        | FY17   |        |                 | FY22   |        | FY27         |        |       |  |  |
|   | Med    | Surg   | Psych  | Med             | Surg   | Psych  | Med          | Surg   | Psych |  |  |
| In-House BDOC   | 30,524 | 14,534 | 10,480 | 30,267          | 14,286 | 9,974  | 28,511       | 12,973 | 8,789 |  |  |
| Community BDOC  | 3,747  | 3,286  | 341    | 3,706 3,263 326 |        |        | 3,493        | 2,960  | 286   |  |  |
| Total BDOC  | 34,271 | 17,820 | 10,821 | 33,973          | 17,549 | 10,300 | 32,003       | 15,933 | 9,074 |  |  |
| ADC By HSPG   | 93.9   | 48.8   | 29.6   | 93.1            | 48.1   | 28.2   | 87.7 43.7 24 |        |       |  |  |
| Total ADC   |        | 172.4  |        | 169.4           |        |        | 156.2        |        |       |  |  |
| Total Bed Need*                                       |        | 203    |        | 199             |        |        | 184          |        |       |  |  |

\*Total bed need is based on an 85% occupancy rate



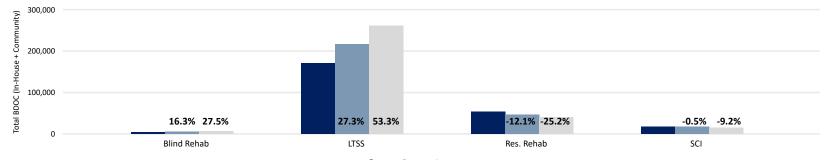
Note: Percent changes are for 5 and 10 years

2017 2022 2027

# **Demand BY17 Parent Facility Utilization Projections (Other Inpatient)** — Cleveland-Ohio VAMC

|                 | BY17 Cleveland-Ohio VAMC Utilization Projections BDOC |         |              |        |                |         |              |        |                |         |              |        |
|-----------------|---|---------|--------------|--------|----------------|---------|--------------|--------|----------------|---------|--------------|--------|
|                 |   | FY1     | 7            |        |                | FY      | 22           |        |                | FY2     | 27           |        |
|                 | Blind<br>Rehab  | LTSS    | Res<br>Rehab | SCI    | Blind<br>Rehab | LTSS    | Res<br>Rehab | SCI    | Blind<br>Rehab | LTSS    | Res<br>Rehab | SCI    |
| In-House BDOC   | 4,750   | 46,220  | 53,380       | 17,234 | 5,525          | 46,500  | 46,924       | 17,141 | 6,054          | 46,840  | 39,918       | 15,644 |
| Community BDOC  | N/A   | 124,023 | N/A          | N/A    | N/A            | 170,303 | N/A          | N/A    | N/A            | 214,065 | N/A          | N/A    |
| Total BDOC      | 4,750   | 170,243 | 53,380       | 17,234 | 5,525          | 216,803 | 46,924       | 17,141 | 6,054          | 260,905 | 39,918       | 15,644 |
| ADC By HSPG     | 13.0  | 466.4   | 146.2        | 47.2   | 15.1           | 594.0   | 128.6        | 47.0   | 16.6           | 714.8   | 109.4        | 42.9   |
| Total ADC       | 672.9   |         |              |        | 784.6          |         |              |        | 883.6          |         |              |        |
| Total Bed Need* |   | 726     | 5            |        | 842            |         |              | 944    |                |         |              |        |

<sup>\*</sup>Total bed need is based on a 95% occupancy for LTSS and 85% occupancy for Blind rehab, residential rehab, and SCI



Note: Percent changes are for 5 and 10 years

**●**2017 **●**2022 **●**2027





# **Demand**

# **Overall Inpatient Commercial Demand – Cleveland-Ohio Area**

- Overview:
  - ✓ Commercial market inpatient demand estimates were developed to understand current and future expected inpatient demand trends for non-Veteran populations
  - ✓ Demand estimates are based on non-Veteran patient origin within a 60 minute drive time from parent VA Medical Center/ Health Care Center noted

|                        | Total Inpati | ent Bed Days of C | are (BDOC) |            | Growth Pro   | jections (#,%) |               |
|------------------------|--------------|-------------------|------------|------------|--------------|----------------|---------------|
| Clinical Service Line  | 2018         | 2023              | 2028       | 5 Year Chg | 5 Year % Chg | 10 Year Chg    | 10 Year % Chg |
| General Medicine       | 162,361      | 184,890           | 203,866    | 22,529     | 13.9%        | 41,505         | 25.6%         |
| Nephrology             | 82,350       | 90,034            | 96,638     | 7,684      | 9.3%         | 14,288         | 17.4%         |
| Neurology              | 118,006      | 125,121           | 130,724    | 7,115      | 6.0%         | 12,718         | 10.8%         |
| Hematology             | 19,539       | 19,883            | 20,074     | 344        | 1.8%         | 535            | 2.7%          |
| Rheumatology           | 4,720        | 4,519             | 4,224      | -201       | -4.3%        | -496           | -10.5%        |
| Gastroenterology       | 119,159      | 117,999           | 119,931    | -1,160     | -1.0%        | 772            | 0.6%          |
| Pulmonary              | 165,999      | 160,475           | 152,300    | -5,524     | -3.3%        | -13,699        | -8.3%         |
| Dermatology            | 24,369       | 23,550            | 24,099     | -819       | -3.4%        | -270           | -1.1%         |
| Oncology Medical       | 42,607       | 41,657            | 41,114     | -950       | -2.2%        | -1,493         | -3.5%         |
| Cardiology             | 206,838      | 192,138           | 174,787    | -14,700    | -7.1%        | -32,051        | -15.5%        |
| HIV                    | 1,634        | 1,467             | 1,369      | -167       | -10.2%       | -265           | -16.2%        |
| Endocrine              | 31,062       | 23,807            | 21,307     | -7,255     | -23.4%       | -9,755         | -31.4%        |
| Medicine Sub-Total     | 978,644      | 985,540           | 990,433    | 6,896      | 0.7%         | 11,789         | 1.2%          |
| Neurosurgery           | 21,555       | 21,583            | 21,471     | 28         | 0.1%         | -84            | -0.4%         |
| Orthopedics            | 164,410      | 154,471           | 141,508    | -9,939     | -6.0%        | -22,902        | -13.9%        |
| Open Heart             | 39,877       | 39,984            | 40,251     | 107        | 0.3%         | 374            | 0.9%          |
| Ophthalmology          | 1,487        | 1,427             | 1,396      | -60        | -4.0%        | -91            | -6.1%         |
| Vascular Surgery       | 22,082       | 21,122            | 20,390     | -960       | -4.3%        | -1,692         | -7.7%         |
| General Surgery        | 169,887      | 168,383           | 169,436    | -1,504     | -0.9%        | -451           | -0.3%         |
| Thoracic Surgery       | 52,797       | 51,380            | 49,752     | -1,417     | -2.7%        | -3,045         | -5.8%         |
| Trauma                 | 10,145       | 9,693             | 9,169      | -452       | -4.5%        | -976           | -9.6%         |
| Dentistry              | 1,223        | 1,108             | 978        | -115       | -9.4%        | -245           | -20.0%        |
| Urology                | 19,388       | 18,199            | 18,286     | -1,189     | -6.1%        | -1,102         | -5.7%         |
| Otolaryngology         | 6,170        | 4,524             | 3,694      | -1,646     | -26.7%       | -2,476         | -40.1%        |
| Surgery Sub-Total      | 509,021      | 491,874           | 476,331    | -17,147    | -3.4%        | -32,690        | -6.4%         |
| Medicine/Surgery Total | 1,487,665    | 1,477,414         | 1,466,764  | -10,251    | -0.7%        | -20,901        | -1.4%         |
| OB/Delivery            | 83,592       | 77,337            | 73,413     | -6,255     | -7.5%        | -10,179        | -12.2%        |
| Other OB               | 6,794        | 6,040             | 5,638      | -754       | -11.1%       | -1,156         | -17.0%        |
| Gynecology             | 6,861        | 4,543             | 3,742      | -2,318     | -33.8%       | -3,119         | -45.5%        |
| Women's Health Total   | 97,247       | 87,920            | 82,793     | -9,327     | -9.6%        | -14,454        | -14.9%        |
| Psych/Drug Abuse       | 134,778      | 145,748           | 156,365    | 10,970     | 8.1%         | 21,587         | 16.0%         |
| Mental Health Total    | 134,778      | 145,748           | 156,365    | 10,970     | 8.1%         | 21,587         | 16.0%         |
| Acute Rehab            | 2,458        | 1,792             | 1,316      | -666       | -27.1%       | -1,142         | -46.5%        |
| Rehab Total            | 2,458        | 1,792             | 1,316      | -666       | -27.1%       | -1,142         | -46.5%        |
| Other Total            | 87           | 84                | 82         | -3         | -3.4%        | -5             | -5.7%         |
| Grand Total            | 1,722,235    | 1,712,958         | 1,707,320  | -9,277     | -0.5%        | -14,915        | -0.9%         |

**Source: IBM Market Expert** 5.5.V10.NortheastOhio.541



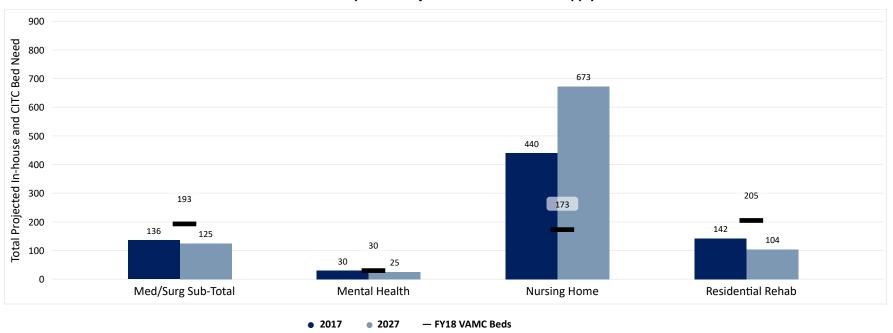
**Supply Estimated Current Total VA Market Supply** 



# Supply C

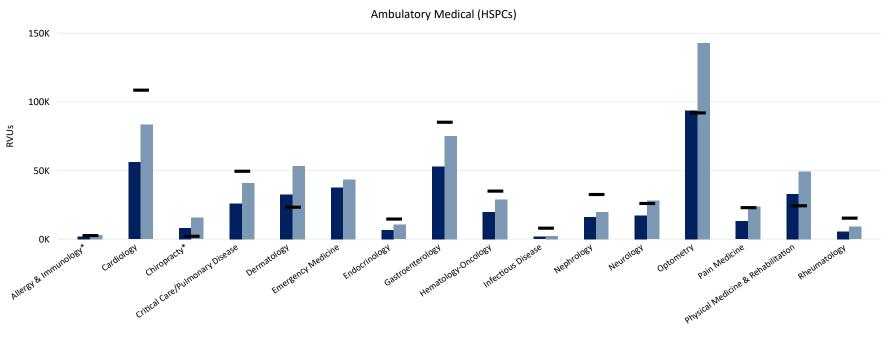
## **Comparing Total Market Veteran Demand vs. VA Medical Center Supply — Inpatient Services**

## **Veteran Inpatient Projected Demand and VA Supply**



# Supply Comp

# Comparing Total Market Veteran Demand vs. VA Medical Center Supply — Outpatient Services — Ambulatory Medical Specialties (HSPCs)



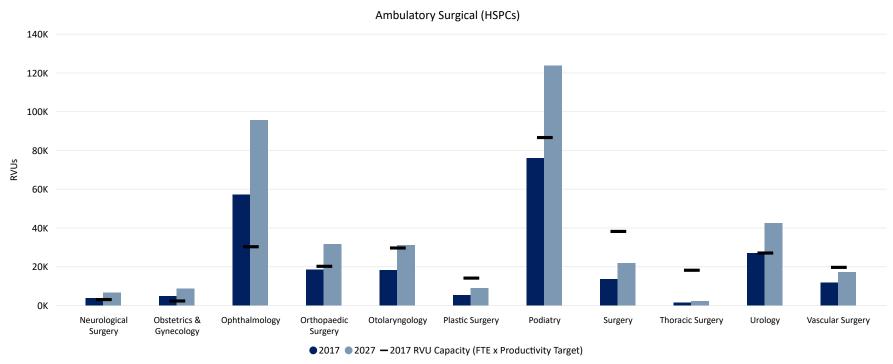
● 2017 ■ 2027 — 2017 RVU Capacity (FTE x Productivity Target)

<sup>\*</sup> Reflects service is not provided in-house or there is no VA set productivity target



# Supply Co

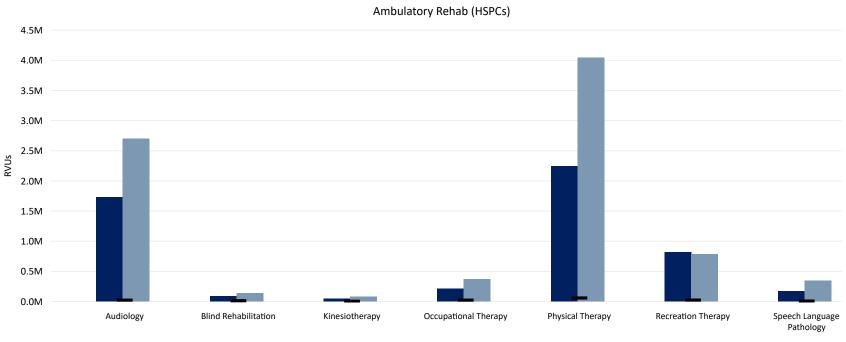
# Comparing Total Market Veteran Demand vs. VA Medical Center Supply — Outpatient Services — Ambulatory Surgical Specialties (HSPCs)



<sup>\*</sup> Reflects service is not provided in-house or there is no VA set productivity target

# Supply C

# Comparing Total Market Veteran Demand vs. VA Medical Center Supply — Outpatient Services — Ambulatory Rehab Specialties (HSPCs)



● 2017 ■ 2027 — 2017 RVU Capacity (FTE x Productivity Target)

<sup>\*</sup> Reflects service is not provided in-house or there is no VA set productivity target



# Supply ▶ Physician Efficiency — Cleveland-Ohio VAMC

| Specialty                         | SPARQ Quadrant<br>2016 | SPARQ Quadrant<br>2017 | SPARQ Quadrant<br>2018 | 2016 MD<br>FTEs | 2017 MD<br>FTEs | 2018 MD<br>FTEs | 2016 APP<br>FTEs | 2017 APP<br>FTEs | 2018 APP<br>FTEs |
|-----------------------------------|------------------------|------------------------|------------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| Allergy and Immunology            | 3 - Inefficient        | 4 - Over Resourced     | 4 - Over Resourced     | 0.4             | 0.4             | 0.4             | 0.0              | 0.6              | 0.0              |
| Anesthesiology                    | N/A                    | N/A                    | N/A                    | 9.6             | 10.4            | 9.2             | 10.0             | 8.5              | 8.8              |
| Cardiology                        | N/A                    | 1 - Optimized Practice | N/A                    | 6.9             | 6.9             | 6.9             | 15.8             | 27.2             | 17.7             |
| Chiropracty                       | N/A                    | N/A                    | N/A                    | 0.8             | 0.7             | 0.8             | N/A              | N/A              | N/A              |
| Critical Care / Pulmonary Disease | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 3.3             | 3.8             | 4.6             | 8.1              | 14.3             | 8.3              |
| Dermatology                       | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 1.0             | 0.8             | 0.9             | 3.5              | 8.2              | 6.6              |
| Emergency Medicine                | N/A                    | N/A                    | N/A                    | 1.5             | 3.9             | 3.1             | 16.6             | 36.5             | 20.8             |
| Endocrinology                     | 2 - Under Resourced    | 1 - Optimized Practice | 4 - Over Resourced     | 1.0             | 0.6             | 2.0             | 5.4              | 6.3              | 5.3              |
| Gastroenterology                  | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 3.6             | 4.5             | 5.2             | 14.9             | 27.3             | 15.1             |
| Geriatric Medicine                | N/A                    | N/A                    | N/A                    | 5.6             | 6.4             | 5.6             | 18.5             | 33.7             | 20.8             |
| Hematology-Oncology               | 2 - Under Resourced    | 2 - Under Resourced    | N/A                    | 4.6             | 4.1             | 4.6             | 3.2              | 7.0              | 2.7              |
| Infectious Disease                | 1 - Optimized Practice | 1 - Optimized Practice | N/A                    | 1.5             | 1.3             | 2.5             | 0.9              | 1.6              | 0.9              |
| Internal Medicine                 | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 70.3            | 67.8            | 75.7            | 106.2            | 114.7            | 119.4            |
| Nephrology                        | 3 - Inefficient        | N/A                    | 4 - Over Resourced     | 2.6             | 3.6             | 2.4             | 2.0              | 4.4              | 3.3              |
| Neurological Surgery              | 4 - Over Resourced     | 1 - Optimized Practice | 1 - Optimized Practice | 0.3             | 0.4             | 0.5             | 0.0              | 0.3              | 0.7              |
| Neurology                         | N/A                    | N/A                    | 4 - Over Resourced     | 5.2             | 4.7             | 6.5             | 3.2              | 2.0              | 2.1              |
| Obstetrics & Gynecology           | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 0.8             | 0.8             | 0.8             | 0.2              | 0.1              | 0.1              |
| Ophthalmology                     | 2 - Under Resourced    | 1 - Optimized Practice | 1 - Optimized Practice | 1.9             | 2.9             | 3.3             | 2.1              | 3.1              | 3.1              |
| Optometry                         | N/A                    | N/A                    | N/A                    | 17.0            | 17.5            | 19.2            | 1.3              | 0.3              | 0.2              |
| Orthopaedic Surgery               | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 2.3             | 2.0             | 2.1             | 3.9              | 4.7              | 6.6              |

# Supply ▶ Physician Efficiency — Cleveland-Ohio VAMC, cont.

| Specialty                          | SPARQ Quadrant<br>2016 | SPARQ Quadrant<br>2017 | SPARQ Quadrant<br>2018 | 2016 MD<br>FTEs | 2017 MD<br>FTEs | 2018 MD<br>FTEs | 2016 APP<br>FTEs | 2017 APP<br>FTEs | 2018 APP<br>FTEs |
|------------------------------------|------------------------|------------------------|------------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| Otolaryngology                     | N/A                    | N/A                    | 4 - Over Resourced     | 1.7             | 2.0             | 2.1             | 8.8              | 9.0              | 9.8              |
| Pain Medicine                      | 4 - Over Resourced     | 4 - Over Resourced     | N/A                    | 2.0             | 1.7             | 2.6             | 10.0             | 8.5              | 8.8              |
| Pathology                          | N/A                    | N/A                    | N/A                    | 4.0             | 4.7             | 4.1             | 0.1              | N/A              | 1.5              |
| Physical Medicine & Rehabilitation | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 5.6             | 4.7             | 5.2             | 4.6              | 4.6              | 4.5              |
| Plastic Surgery                    | 2 - Under Resourced    | 1 - Optimized Practice | 4 - Over Resourced     | 0.7             | 1.1             | 1.2             | 2.5              | 4.8              | 5.1              |
| Podiatry                           | 3 - Inefficient        | 4 - Over Resourced     | 4 - Over Resourced     | 15.8            | 16.1            | 15.9            | 0.2              | 0.3              | 0.2              |
| Primary Care                       | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | N/A             | N/A             | N/A             | N/A              | N/A              | N/A              |
| Psychiatry                         | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 26.7            | 29.6            | 29.4            | N/A              | N/A              | N/A              |
| Psychiatry/Psychology              | N/A                    | N/A                    | N/A                    | N/A             | N/A             | N/A             | 76.5             | 76.7             | 83.5             |
| Psychology                         | 1 - Optimized Practice | 1 - Optimized Practice | 1 - Optimized Practice | 55.5            | 57.5            | 56.7            | 0.0              | 0.0              | 0.0              |
| Radiology                          | N/A                    | N/A                    | N/A                    | 14.3            | 14.8            | 14.7            | 4.6              | 4.3              | 4.4              |
| Rheumatology                       | 4 - Over Resourced     | 4 - Over Resourced     | 4 - Over Resourced     | 1.5             | 0.9             | 0.1             | 3.7              | 5.8              | 5.1              |
| Surgery                            | 2 - Under Resourced    | 2 - Under Resourced    | N/A                    | 5.3             | 6.3             | 7.0             | 3.6              | 4.3              | 4.9              |
| Thoracic Surgery                   | 2 - Under Resourced    | N/A                    | 1 - Optimized Practice | 2.5             | 2.4             | 1.7             | 3.1              | 2.1              | 2.2              |
| Urology                            | 2 - Under Resourced    | 1 - Optimized Practice | 2 - Under Resourced    | 1.5             | 1.5             | 2.0             | 7.6              | 9.2              | 12.8             |
| Vascular Surgery                   | 2 - Under Resourced    | 1 - Optimized Practice | 1 - Optimized Practice | 2.4             | 2.3             | 2.5             | 3.3              | 3.3              | 3.9              |
| Total                              |                        |                        |                        | 279.9           | 289.0           | 301.3           | 344.7            | 433.8            | 389.2            |



# Supply ▶ Potential Physician Additional Capacity — Cleveland-Ohio VAMC

| Physician Specialty               | Potential Additional RVU Capacity |
|-----------------------------------|-----------------------------------|
| Allergy and Immunology            | 95                                |
| Cardiology                        | -                                 |
| Chiropracty                       | -                                 |
| Critical Care / Pulmonary Disease | -                                 |
| Dermatology                       | -                                 |
| Endocrinology                     | 2,000                             |
| Gastroenterology                  | -                                 |
| Geriatric Medicine                | -                                 |
| Hematology-Oncology               | 2,929                             |
| Infectious Disease                | 270                               |
| Internal Medicine                 | -                                 |
| Nephrology                        | 2,055                             |
| Neurological Surgery              | -                                 |
| Neurology                         | 4,819                             |
| Obstetrics & Gynecology           | -                                 |
| Ophthalmology                     | -                                 |
| Optometry                         | 2,508                             |
| Orthopaedic Surgery               | -                                 |
| Otolaryngology                    | -                                 |
| Pain Medicine                     | -                                 |

Potential Additional RVU Capacity = (Productivity Standard – Productivity), N/A = Data Not Available

Source: OPES Physician Capacity Reports 6.6.V10.NortheastOhio.541



# **Supply** Potential Physician Additional Capacity — Cleveland-Ohio VAMC, cont.

| Physician Specialty                | Potential Additional RVU Capacity |
|------------------------------------|-----------------------------------|
| Pathology                          | 9,904                             |
| Physical Medicine & Rehabilitation | -                                 |
| Plastic Surgery                    | 422                               |
| Podiatry                           | 3,247                             |
| Psychiatry                         | -                                 |
| Psychology                         | 1,372                             |
| Radiology                          | 10,277                            |
| Rheumatology                       | 771                               |
| Surgery                            | -                                 |
| Thoracic Surgery                   | -                                 |
| Urology                            | -                                 |
| Vascular Surgery                   | -                                 |

# **Supply** Physicians by Outpatient Clinical Category

| FY18 Cleveland-Ohio VAMC & CBOC Physicians by Outpatient Clinical Category |               |                |                |               |       |  |  |  |  |
|--|---------------|----------------|----------------|---------------|-------|--|--|--|--|
| VA Facility  | Primary Care* | Specialty Care | Emergency Care | Mental Health | Total |  |  |  |  |
| (V10) (541) Cleveland-Ohio   | 33.5          | 79.7           | 3.1            | 52.3          | 168.6 |  |  |  |  |
| (V10) (5419AA) Cleveland CLC   | 2.5           | 0.0            | 0.0            | 0.0           | 2.5   |  |  |  |  |
| (V10) (541BU) Cleveland Domiciliary  | 0.0           | 0.0            | 0.0            | N/A           | N/A   |  |  |  |  |
| (V10) (541BY) Canton   | 1.8           | 4.0            | 0.0            | 3.7           | 9.5   |  |  |  |  |
| (V10) (541BZ) Youngstown   | 4.6           | 3.1            | 0.0            | 3.4           | 11.1  |  |  |  |  |
| (V10) (541GB) Lorain   | 4.9           | 2.3            | 0.0            | 0.2           | 7.3   |  |  |  |  |
| (V10) (541GC) Sandusky   | 3.3           | 1.7            | 0.0            | 0.4           | 5.3   |  |  |  |  |
| (V10) (541GD) Mansfield  | 1.4           | 3.0            | 0.0            | 1.7           | 6.1   |  |  |  |  |
| (V10) (541GE) McCafferty   | 0.7           | 0.5            | 0.0            | 0.7           | 1.9   |  |  |  |  |
| (V10) (541GF) Lake County  | 4.7           | 0.1            | 0.0            | 0.3           | 5.1   |  |  |  |  |
| (V10) (541GG) Akron  | 6.5           | 4.2            | 0.0            | 4.6           | 15.3  |  |  |  |  |
| (V10) (541GH) East Liverpool   | 0.8           | 0.5            | 0.0            | 1.6           | 2.9   |  |  |  |  |
| (V10) (541GI) Warren   | 3.2           | 1.8            | 0.0            | 0.8           | 5.8   |  |  |  |  |
| (V10) (541GJ) New Philadelphia   | 0.1           | 1.4            | 0.0            | 1.6           | 3.1   |  |  |  |  |
| (V10) (541GK) Ravenna  | 1.9           | 0.9            | 0.0            | 2.5           | 5.4   |  |  |  |  |
| (V10) (541GL) Parma  | 11.5          | 5.3            | 0.0            | 10.1          | 26.9  |  |  |  |  |
| (V10) (541GM) Cleveland-Superior   | 0.0           | 2.0            | 0.0            | 0.0           | 2.0   |  |  |  |  |
| (V10) (541GN) State Street-Painesville                                     | 0.0           | 1.3            | 0.0            | 1.4           | 2.7   |  |  |  |  |
| (V10) (541QB) Cleveland-Euclid   | 0.0           | 0.3            | 0.0            | 0.7           | 1.0   |  |  |  |  |

**Source: VSSC Physician Productivity Cube** 

<sup>\*</sup>Primary Care includes Internal Medicine and Geriatric Medicine; Note: Contract clinics do not have FTEs represented.



# **Supply** Vacant Positions

| Occupation  |      |       |
|---|------|-------|
| - Occupation -  | FY18 | FY19* |
| 0060 Chaplain   | 1.0  | 1.0   |
| 0080Security Administration                           | N/A  | 2.    |
| 0083 Police   | 2.0  | 1.    |
| 0086 Security Clerical and Assistance                 | 1.0  | N/    |
| 0101 Social Science                                   | 1.5  | 2.    |
| 0102 Social Science Aid and Technician                | 4.0  | 1.    |
| 0180 Psychology                                       | 1.0  | 3.    |
| 0181 Psychology Aid and Technician                    | 1.0  | 3.    |
| 0185 Social Work                                      | 10.0 | 9.    |
| 0187Social Services                                   | N/A  | 1.    |
| 0201 Human Resources Management                       | 13.0 | 3.    |
| 0203 Human Resources Assistance                       | 9.0  | 1.    |
| 0299Human Resources Management Student Trainee        | N/A  | 0.    |
| 0301 Miscellaneous Administration and Program         | 6.0  | 4.    |
| 0303 Miscellaneous Clerk and Assistant                | 9.0  | 6.    |
| 0318 Secretary  | 2.0  | 1.    |
| 0340 Program Management & 0344 Management and         | 3.0  | 1.    |
| 0341 Administrative Officer                           | 3.0  | 1.    |
| 0343 Management and Program Analysis                  | 10.0 | 3.    |
| 0382Telephone Operating                               | N/A  | 4.    |
| 0399Administration And Office Support Student Trainee | N/A  | 5.    |
| 0404Biological Science Technician                     | N/A  | 3.    |
| 0503 Financial Clerical and Assistance                | 1.0  | N/    |
| 0511Auditing  | N/A  | 1.    |
| 0525 Accounting Technician                            | 1.0  | 1.    |

<sup>\*</sup>FY19 vacant positions as of March 2019



# **Supply Vacant Positions, cont.**

| Cleveland-Ohio VAMC Open FTE Positions  |      |       |  |  |  |  |
|---|------|-------|--|--|--|--|
| Occupation                              | FY18 | FY19* |  |  |  |  |
| 0544 Civilian Pay                       | N/A  | 3.0   |  |  |  |  |
| 0560 Budget Analysis                    | 1.0  | N/A   |  |  |  |  |
| 0601 General Health Science             | 5.2  | 0.    |  |  |  |  |
| 0602 Medical Officer                    | 19.4 | 4.    |  |  |  |  |
| 0603 Physician's Assistant              | 3.0  | N/    |  |  |  |  |
| 0605 Nurse Anesthetist                  | N/A  | 1.    |  |  |  |  |
| 0610 Nurse                              | 57.1 | 46.   |  |  |  |  |
| 0620 Practical Nurse                    | 12.0 | 14.   |  |  |  |  |
| 0621 Nursing Assistant                  | 14.0 | 12.   |  |  |  |  |
| 0622 Medical Supply Aide and Technician | 3.0  | 6.    |  |  |  |  |
| 0630 Dietitian and Nutritionist         | 2.0  | 2.    |  |  |  |  |
| 0631 Occupational Therapist             | 1.0  | N/    |  |  |  |  |
| 0633 Physical Therapist                 | N/A  | 1.    |  |  |  |  |
| 0640 Health Aid and Technician          | 9.0  | 1.    |  |  |  |  |
| 0644 Medical Technologist               | 7.0  | 4.    |  |  |  |  |
| 0645 Medical Technician                 | 1.0  | 1.    |  |  |  |  |
| 0647 Diagnostic Radiologic Technologist | 0.1  | 5.    |  |  |  |  |
| 0649 Medical Instrument Technician      | 3.0  | 2.    |  |  |  |  |
| 0660 Pharmacist                         | 6.1  | 1.    |  |  |  |  |
| 0661 Pharmacy Technician                | 3.2  | 6.    |  |  |  |  |
| 0662 Optometrist                        | 1.0  | N/    |  |  |  |  |
| 0667 Orthotist and Prosthetist          | 1.0  | 1.    |  |  |  |  |
| 0671 Health System Specialist           | 6.0  | 3.    |  |  |  |  |
| 0672 Prosthetic Representative          | 2.0  | N/    |  |  |  |  |
| 0675 Medical Records Technician         | 2.0  | 1.    |  |  |  |  |

<sup>\*</sup>FY19 vacant positions as of March 2019



# **Supply Vacant Positions, cont.**

| Cleveland-Ohio VAMC Open FTE Positions  |       |       |  |  |  |  |
|---|-------|-------|--|--|--|--|
| Occupation                              | FY18  | FY19* |  |  |  |  |
| 0679 Medical Support Assistance         | 21.0  | 26.0  |  |  |  |  |
| 0680 Dental Officer                     | 4.0   | 0.4   |  |  |  |  |
| 0681 Dental Assistant                   | 1.0   | 1.0   |  |  |  |  |
| 0699 Medical and Health Student Trainee | 2.2   | 0.2   |  |  |  |  |
| 0856Electronics Technical               | N/A   | 0.0   |  |  |  |  |
| 0858 Biomedical Engineering             | 2.8   | N/A   |  |  |  |  |
| 1035Public Affairs                      | N/A   | 1.0   |  |  |  |  |
| 1105 Purchasing                         | 4.0   | 2.0   |  |  |  |  |
| 1601 General Facilities and Equipment   | 3.0   | 1.0   |  |  |  |  |
| 2003 Supply Program Management          | 1.0   | N/A   |  |  |  |  |
| 2010 Inventory Management               | 2.0   | N/A   |  |  |  |  |
| 2805 Electrician                        | N/A   | 2.0   |  |  |  |  |
| 3566 Custodial Worker                   | 5.0   | 12.4  |  |  |  |  |
| 4607Carpentry                           | N/A   | 1.0   |  |  |  |  |
| 4749 Maintenance Mechanic               | N/A   | 1.0   |  |  |  |  |
| 5703 Motor Vehicle Operator             | 4.0   | N/A   |  |  |  |  |
| 6907 Materials Handler                  | 2.0   | 1.0   |  |  |  |  |
| 7401Misc Food Preparation And Serving   | N/A   | 0.4   |  |  |  |  |
| 7404 Cook                               | N/A   | 1.0   |  |  |  |  |
| 7408 Food Service Worker                | 0.8   | 1.5   |  |  |  |  |
| Grand Total                             | 290.3 | 226.5 |  |  |  |  |

<sup>\*</sup>FY19 vacant positions as of March 2019



Supply Estimated Current Total Community
Market Supply

# Supply

Findlay

23

Marion

Delaware



10-g-9-E

541QA 541GG

Canton 10-379-H

10-g-9-D

10-g-9-G

Weirton

10-g-9-F

10-g-9-C



Map Extent

\*Based on Location of Parent Facility
0 7 14 21

Market 10-g

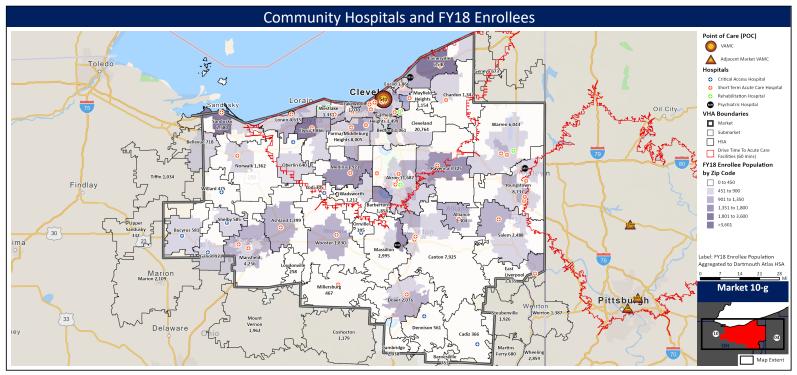
# **Supply** Existing Federal Facilities, cont.

| Sector   | Type*    | Partner Facility Name**  | Distance From VA POC (x miles, POC Name)   |
|----------|----------|--|--|
| 10-g-9-A | FQHC (9) | Collinwood Health Center     East Cleveland Health Center     Tremont Health Center                      | ●6, (V10) (541GM) Cleveland-Superior, OH ●3, (V10) (541GM) Cleveland-Superior, OH ●2, (V10) (541GE) McCafferty, OH                                     |
| 10-g-9-B | FQHC (5) | Kinsman Health Center     Portage County Health Center     Lloyd Mccoy Community Health Center           | <ul> <li>28, (V10) (541BZ) Youngstown, OH</li> <li>5, (V10) (541GK) Ravenna, OH</li> <li>3, (V10) (541GI) Warren, OH</li> </ul>                        |
| 10-g-9-C | FQHC (5) | Community Health Srvcs - Willard     Dental Mobile Van #1 Third Street     Third Street Community Clinic | ●31, (V10) (541GC) Sandusky, OH<br>●2, (V10) (541GD) Mansfield, OH<br>●2, (V10) (541GD) Mansfield, OH  |
| 10-g-9-D | FQHC (3) | ●The Community Dental Center  ●Dba Lisbon Community Health Center  ●East Liverpool Health Center         | <ul> <li>•14, (V10) (541GH) East Liverpool, OH</li> <li>•14, (V10) (541GH) East Liverpool, OH</li> <li>•1, (V10) (541GH) East Liverpool, OH</li> </ul> |
| 10-g-9-E | FQHC (1) | Akron Community Health Resources   | •2, (V10) (541GG) Akron, OH  |
| 10-g-9-F | FQHC (1) | ●Lorain County Health And Dentistry  | •4, (V10) (541GB) Lorain, OH   |
| 10-g-9-G | FQHC (1) | Youngstown Community Health Center   | ●2, (V10) (541BZ) Youngstown, OH   |
| 10-g-9-H | FQHC (2) | Good Samaritan Comm Hlth Center     Canton Community Clinic Site   | ●19, (V10) (541BY) Canton, OH<br>●2, (V10) (541BY) Canton, OH  |

 $<sup>\</sup>hbox{*FQHC quantity in parentheses reflects total number of FQHCs within a sector.}$ 

 $<sup>\</sup>ensuremath{^{**}}$  The three FQHCs listed reflect the three most distant FQHCs from a VA POC.

# **Supply** Market Community Hospital Overview



Note: Map provides context of community hospital density as map scale prevents illustration of all hospitals.

A Dartmouth Atlas Hospital Service Area (HSA) is a ZIP code-defined geography encompassing the community where the ZIP code's Medicare residents predominantly receive their hospital care.



# Supply

# Market Community Hospital Overview, cont.

| Community Hospital Overview   |            |                    |                   |  |  |  |  |
|-------------------------------|------------|--------------------|-------------------|--|--|--|--|
| VAMC Area                     | Hospitals* | Total Staffed Beds | Total Occupancy** |  |  |  |  |
| (541) Cleveland               | 39         | 7,236              | 62.2%             |  |  |  |  |
| Total Hospitals in the Market | 63         | 10,908             | 60.6%             |  |  |  |  |

Note: The VAMC area is defined as the area within a 60 minute drive time of VAMC.

<sup>\*</sup>Includes short term acute, critical access, psychiatric, and rehabilitation hospitals with a CMS Cost Report in FY17 or FY18 (does not include pediatric or DOD hospitals) and can include multi-campus hospitals reporting under a single provider number.

<sup>\*\*</sup>Occupancy is based on total staffed beds.





# Supply

# **Community Hospital Current and Future Inpatient Demand & Supply**

| Top Hospitals <sup>1,2</sup>   | Med/Surg/Acute    |                        | Mental Health     |            | Reh               | ab         | СМІ |
|--|-------------------|------------------------|-------------------|------------|-------------------|------------|-----|
|  | Beds <sup>3</sup> | Occupancy <sup>4</sup> | Beds <sup>3</sup> | Occupancy⁴ | Beds <sup>3</sup> | Occupancy⁴ |     |
| Cleveland Clinic Main Campus   | 1,266             | 78.0%                  | N/A               | N/A        | 17                | 87.2%      | 2.5 |
| UH Cleveland Medical Center, Bedford Medical Center, MacDonalds Womens | 599               | 73.9%                  | 41                | 75.6%      | N/A               | N/A        | 2.2 |
| Hospital   |                   |                        |                   |            |                   |            |     |
| Summa Health System - Akron, St. Thomas                                | 579               | 55.0%                  | 69                | 61.1%      | N/A               | N/A        | 1.7 |
| MetroHealth Medical Center   | 499               | 55.9%                  | 20                | 83.9%      | 67                | 49.2%      | 1.7 |
| Fairview Hospital  | 435               | 65.9%                  | N/A               | N/A        | N/A               | N/A        | 1.6 |
| Hillcrest Hospital   | 386               | 75.8%                  | N/A               | N/A        | N/A               | N/A        | 1.7 |
| Akron General  | 379               | 75.2%                  | 53                | 62.4%      | N/A               | N/A        | 1.6 |
| TriPoint Medical Center, West Medical Center                           | 312               | 53.9%                  | 20                | 41.4%      | 12                | 67.0%      | 1.5 |
| Northcoast Behavioral Healthcare                                       | N/A               | N/A                    | 258               | 97.9%      | N/A               | N/A        | N/A |
| University Hospitals Parma Medical Center                              | 219               | 44.3%                  | 14                | 71.3%      | 29                | 43.1%      | 1.6 |
| Marymount Hospital   | 215               | 37.2%                  | 67                | 68.6%      | N/A               | N/A        | 1.6 |
| University Hospitals Elyria Medical Center                             | 212               | 53.4%                  | N/A               | N/A        | N/A               | N/A        | 1.6 |
| Southwest General Health Center  | 194               | 69.3%                  | 36                | 88.5%      | 15                | 66.0%      | 1.6 |
| University Hospitals Portage Medical Center                            | 191               | 36.3%                  | N/A               | N/A        | N/A               | N/A        | 1.5 |
| Cleveland Clinic Rehabilitation Hospital - Avon, Beachwood             | N/A               | N/A                    | N/A               | N/A        | 180               | 48.6%      | N/A |
| Other Hospitals in Area (24)   | 1,499             | 51.5%                  | 479               | 71.4%      | 228               | 67.6%      | 1.7 |
| Total  | 6,985             | 61.9%                  | 1,057             | 77.0%      | 548               | 58.4%      | 1.7 |

<sup>1.</sup> Top hospitals based on number of staffed beds. 2. All beds within acute psychiatric and rehab commercial hospitals were assumed to be psychiatric or rehab beds. 3. Indicates staffed beds 4. Occupancy rate = total Bed Days of Care (BDOC) divided by staffed operating beds. 5. Applied growth rate and assumes actual beds remains the same. 6. BDOC and Projection Rate from IBM Market Expert

<sup>\*</sup> Includes acute rehabilitation





# Community Hospital Current and Future Inpatient Demand & Supply, cont.

| Future Supply and Demand             |       |           |             |             |           |                |            |       |           |             |           |           |           |
|--------------------------------------|-------|-----------|-------------|-------------|-----------|----------------|------------|-------|-----------|-------------|-----------|-----------|-----------|
| _                                    | 2018  |           |             |             |           | Estimated 2028 |            |       |           |             |           |           |           |
| Surplus of beds                      | ADC   | BDOC      | Actual Beds | 2018 Actual | 75%       | 80%            | Projection | ADC   | BDOC      | Actual Beds | 2028      | 75%       | 80%       |
| _                                    |       |           |             | Occupancy   | Occupancy | Occupancy      | Rate       |       |           |             | Projected | Occupancy | Occupancy |
| Shortage of beds                     |       |           |             |             | Bed Need  | Bed Need       |            |       |           |             | Occupancy | Bed Need  | Bed Need  |
| Medicine/Surgical*                   | 4,821 | 1,759,627 | 7,784       | 61.9%       | 6,428     | 6,026          | -1.4%      | 4,609 | 1,682,294 | 7,784       | 59.2%     | 6,145     | 5,761     |
| Medicine/Surgical* Conceptual Excess |       |           |             |             | 1,356     | 1,758          |            |       |           |             |           | 1,639     | 2,023     |
| Mental Health                        | 837   | 305,614   | 1,088       | 77.0%       | 1,116     | 1,047          | 16.0%      | 971   | 354,563   | 1,088       | 89.3%     | 1,295     | 1,214     |
| Mental Health Conceptual Excess      |       |           |             |             | -28       | 41             |            |       |           |             |           | -207      | -126      |

<sup>1.</sup> Top hospitals based on number of staffed beds. 2. All beds within acute psychiatric and rehab commercial hospitals were assumed to be psychiatric or rehab beds. 3. Indicates staffed beds 4. Occupancy rate = total Bed Days of Care (BDOC) divided by staffed operating beds. 5. Applied growth rate and assumes actual beds remains the same. 6. BDOC and Projection Rate from IBM Market Expert

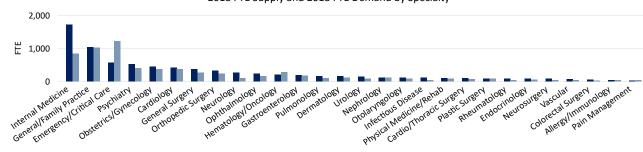
<sup>\*</sup> Includes acute rehabilitation





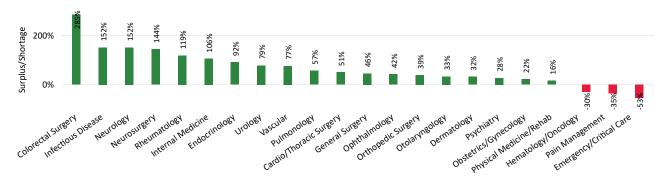
# **Community Physician Current Supply & Demand**

2018 FTE Supply and 2018 FTE Demand by Specialty









<sup>\*</sup>FTE net percentage of supply for specialties between -15% and 15% are not included given the FTE supply for those specialties are comparable to FTE demand

Note: FTE demand based on median productivity by specialty

**Source: IBM Watson Market Expert** 

|                              |                 | The state of the s |                  |
|------------------------------|-----------------|--|------------------|
| Specialty                    | 2018 FTE Supply | 2018 FTE Demand  | Shortage/Surplus |
| 1. Primary Care              | '               |  |                  |
| General/Family Practice      | 1,032           | 1,023  | 10               |
| Internal Medicine            | 1,720           | 834  | 885              |
| 2. Specialty Care (Medical)  |                 |  |                  |
| Allergy/Immunology           | 40              | 45   | -5               |
| Cardiology                   | 411             | 365  | 46               |
| Dermatology                  | 157             | 119  | 38               |
| Endocrinology                | 88              | 46   | 42               |
| Gastroenterology             | 184             | 168  | 16               |
| Hematology/Oncology          | 198             | 280  | -83              |
| Infectious Disease           | 107             | 42   | 64               |
| Nephrology                   | 119             | 107  | 12               |
| Neurology                    | 266             | 106  | 160              |
| Pulmonology                  | 159             | 101  | 57               |
| Rheumatology                 | 88              | 40   | 48               |
| 3. Specialty Care (Surgical) |                 |  |                  |
| Cardio/Thoracic Surgery      | 99              | 66   | 33               |
| Colorectal Surgery           | 48              | 13   | 36               |
| General Surgery              | 376             | 259  | 118              |
| Neurosurgery                 | 86              | 35   | 51               |
| Ophthalmology                | 231             | 162  | 68               |
| Orthopedic Surgery           | 324             | 233  | 91               |
| Otolaryngology               | 108             | 81   | 27               |
| Plastic Surgery              | 88              | 80   | 9                |
| Urology                      | 149             | 83   | 65               |
| Vascular                     | 71              | 40   | 31               |
| 4. Women's Health            |                 |  |                  |
| Obstetrics/Gynecology        | 449             | 368  | 81               |
| 5. Mental Health             |                 |  |                  |
| Psychiatry                   | 520             | 408  | 113              |
| 6. Rehab                     |                 |  |                  |
| Physical Medicine/Rehab      | 102             | 88   | 14               |
| 7. Emergency Services        |                 |  |                  |
| Emergency/Critical Care      | 566             | 1,215  | -649             |
| 8. Other Services            |                 |  |                  |
| Pain Management              | 24              | 37   | -13              |
|                              |                 |  |                  |



# Supply

# **Known Major Changes in Community Hospitals – Cleveland-Ohio Area**

### Community Hospitals in the Cleveland-Ohio Area

### New Facilities/Capability/Residency

- Lake Health and University Hospitals (UH) have entered into an agreement for UH to join the 25-bed Lake Health Beachwood Medical Center as a minority member. (Article Date: 08/2018)
- Construction began in March 2019 for the University Hospitals Samaritan Medical Center, a \$17 million, 33,000 square foot healthcare facility in Richland County, Ohio. (Article Date: 03/2019)
- University Hospitals Parma Medical Center began construction on the \$27.5 million renovation of its Department of Surgery. The first phase of the two-year project is a 7,700 square foot expansion to the facility, supported by a \$2 million lead gift from the Parma Hospital Health Foundation. (Article Date: 03/2019)
- University Hospitals Health System will begin Phase Two of construction on a building at University Hospitals Ahuja Medical Center in Beachwood in fall 2019. The \$200 million project, which includes a five-floor hospital tower and a two-floor, 64,000 square foot sports medicine complex, is expected to be completed by 2022. (Article Date: 03/2019)
- On April 22, 2019, The MetroHealth System began construction on the centerpiece of its \$946 million, 11-story 264-bed replacement hospital. Expected completion is in 2022, and the first patients will be seen in early 2023. (Article Date: 04/2019)
- Crystal Clinic Orthopedic Center planned to break ground on its flagship 60-bed orthopedic hospital in Fairlawn in Spring 2019. Due to a lengthy court battle, the clinic is moving foward with plans for a backup location. The targeted completion date is still set for 2021. (Article Date: 07/2019)

### Mergers/Acquisitions/Partnerships

- MetroHealth System began the Community Trauma Institute, partnering with eight local churches to offer care for post-discharge hospital patients. The pilot program will begin in fall 2018.
   (Article Date: 08/2018)
- Beaumont Health signed a letter of intent to acquire Summa Health System, which has been struggling financially for years. The merger includes Summa's health insurance arm,
   SummaCare, which will allow Beaumont to compete with market rivals. (Article Date: 07/2019)
- Summa Health System is partnered with Trellis Rx, a technology-enabled specialty pharmacy service provider, to offer a new program that aims to enhance care for patients who take specialty medications. The program launched for oncology patients in April 2019, and will expand to other specialties. (Article Date: 03/2019)
- On July 1, 2019, Alteon Health assumed management of hospitalist medicine at University Health (UH) Cleveland Medical Center, a 1,032-bed quaternary care medical center affiliated with Case Western Reserve University. (Article Date: 07/2019)
- Metro Health System acquired Recovery Resources, a nonprofit organization that provides behavioral health and addiction services. Recovery Resources will keep its separate nonprofit status and operating structure. (Article Date: 10/2018)



# **Access** Current Access

## Access

# ► Same Day Appointments (FY15-18)

Same Day Appointment Totals

|                                |       | Mental I | Health |       |       | Primary | Care  |       | Specialty Care |        |        |        |
|--------------------------------|-------|----------|--------|-------|-------|---------|-------|-------|----------------|--------|--------|--------|
| Facility                       | FY15  | FY16     | FY17   | FY18  | FY15  | FY16    | FY17  | FY18  | FY15           | FY16   | FY17   | FY18   |
| (V10) (541) Cleveland-Ohio     | 3,775 | 3,107    | 3,018  | 2,946 | 4,292 | 4,305   | 4,670 | 4,562 | 20,008         | 19,884 | 19,530 | 18,830 |
| (V10) (541BY) Canton           | 534   | 536      | 410    | 499   | 2,973 | 3,943   | 5,678 | 5,830 | 654            | 888    | 717    | 641    |
| (V10) (541BZ) Youngstown       | 573   | 743      | 774    | 874   | 6,107 | 5,721   | 6,321 | 6,127 | 603            | 707    | 620    | 672    |
| (V10) (541GB) Lorain           | 587   | 653      | 929    | 734   | 5,349 | 4,031   | 4,288 | 3,120 | 736            | 805    | 580    | 434    |
| (V10) (541GC) Sandusky         | 513   | 335      | 511    | 573   | 2,063 | 1,236   | 1,143 | 1,510 | 219            | 248    | 208    | 217    |
| (V10) (541GD) Mansfield        | 967   | 959      | 602    | 573   | 5,000 | 5,216   | 5,601 | 5,214 | 552            | 602    | 564    | 543    |
| (V10) (541GE) McCafferty       | 118   | 115      | 201    | 152   | 565   | 628     | 578   | 640   | 17             | 100    | 88     | 88     |
| (V10) (541GF) Lake County      | 401   | 427      | 327    | 241   | 4,543 | 4,376   | 4,097 | 3,696 | 396            | 519    | 463    | 357    |
| (V10) (541GG) Akron            | 722   | 548      | 678    | 660   | 3,836 | 5,673   | 6,036 | 6,361 | 1,219          | 1,129  | 1,065  | 4,739  |
| (V10) (541GH) East Liverpool   | 263   | 246      | 399    | 528   | 1,242 | 999     | 1,120 | 1,507 | 62             | 89     | 87     | 175    |
| (V10) (541GI) Warren           | 250   | 349      | 439    | 292   | 2,642 | 2,636   | 2,756 | 2,262 | 187            | 291    | 273    | 224    |
| (V10) (541GJ) New Philadelphia | 154   | 208      | 167    | 151   | 2,336 | 2,684   | 2,579 | 2,715 | 166            | 166    | 208    | 218    |
| (V10) (541GK) Ravenna          | 129   | 108      | 137    | 184   | 1,975 | 2,020   | 2,308 | 2,067 | 126            | 384    | 527    | 399    |
| (V10) (541GL) Parma            | 861   | 1,057    | 940    | 731   | 3,653 | 2,492   | 3,730 | 3,781 | 2,463          | 2,863  | 2,511  | 5,591  |

N/A: Not Available

**Source: VSSC Completed Appointments Cube** 

# Access

# ► Same Day Appointments (FY15-18), cont.

Same Day Appointment Totals

|  |       | Mental I | Health |       |        | Primary | Care   |        |        | Specialty | y Care |        |
|--|-------|----------|--------|-------|--------|---------|--------|--------|--------|-----------|--------|--------|
| Facility                               | FY15  | FY16     | FY17   | FY18  | FY15   | FY16    | FY17   | FY18   | FY15   | FY16      | FY17   | FY18   |
| (V10) (541GN) State Street-Painesville | N/A   | N/A      | 96     | 135   | N/A    | N/A     | 1      | N/A    | N/A    | N/A       | 140    | 341    |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A   | N/A      | N/A    | N/A   | N/A    | N/A     | N/A    | N/A    | N/A    | 54        | 74     | 59     |
| Facility Total                         | 9,847 | 9,391    | 9,628  | 9,273 | 46,576 | 45,960  | 50,906 | 49,392 | 27,408 | 28,729    | 27,655 | 33,528 |
| Market Total                           | 9,847 | 9,391    | 9,628  | 9,273 | 46,576 | 45,960  | 50,906 | 49,392 | 27,408 | 28,729    | 27,655 | 33,528 |

N/A: Not Available



## Access

### **Established Patient Appointments (FY15-18)**

Average Established Patient Wait (Days) from Preferred Date (PD)

|   |      | Mental | Health |      |      | Primary | Care |      | Specialty Care |      |      |      |
|---|------|--------|--------|------|------|---------|------|------|----------------|------|------|------|
| Facility  | FY15 | FY16   | FY17   | FY18 | FY15 | FY16    | FY17 | FY18 | FY15           | FY16 | FY17 | FY18 |
| (3V10) (541) Cleveland, OH (Louis Stokes Cleveland) | 0.9  | 3.1    | 4.3    | 5.4  | 3.2  | 5.9     | 5.2  | 8.4  | 2.6            | 5.1  | 8.3  | 8.0  |
| (3V10) (541BY) Canton, OH                           | 0.3  | 0.5    | 1.1    | 4.8  | 3.4  | 5.4     | 4.6  | 4.6  | 6.2            | 7.4  | 11.6 | 7.8  |
| (3V10) (541BZ) Youngstown, OH                       | 4.0  | 2.7    | 2.7    | 2.1  | 1.4  | 1.8     | 3.6  | 2.9  | 3.1            | 3.0  | 4.0  | 4.9  |
| (3V10) (541GB) Lorain, OH                           | 1.3  | 0.8    | 1.7    | 3.2  | 0.9  | 1.2     | 3.0  | 4.5  | 1.3            | 0.7  | 3.5  | 5.3  |
| (3V10) (541GC) Sandusky, OH                         | 1.2  | 0.3    | 1.0    | 5.2  | 2.1  | 0.6     | 3.7  | 4.7  | 3.9            | 0.6  | 5.3  | 5.5  |
| (3V10) (541GD) Mansfield, OH (David F. Winder)      | 0.4  | 0.2    | 1.5    | 2.7  | 1.3  | 0.2     | 1.7  | 2.4  | 1.5            | 0.5  | 3.0  | 4.0  |
| (3V10) (541GE) McCafferty, OH                       | 2.4  | 2.3    | 3.4    | 23.7 | 2.3  | 0.6     | 2.1  | 3.0  | 4.3            | 1.0  | 2.9  | 3.2  |
| (3V10) (541GF) Lake County, OH                      | 0.7  | 0.4    | 2.1    | 3.4  | 0.8  | 1.4     | 3.4  | 4.1  | 5.7            | 3.0  | 5.0  | 4.8  |
| (3V10) (541GG) Akron, OH                            | 3.1  | 2.6    | 4.7    | 6.9  | 2.3  | 1.6     | 3.8  | 4.3  | 2.9            | 4.1  | 6.1  | 6.4  |
| (3V10) (541GH) East Liverpool, OH                   | 2.0  | 0.9    | 2.9    | 4.5  | 1.0  | 0.7     | 5.6  | 3.2  | 2.5            | 1.1  | 8.7  | 6.0  |
| (3V10) (541GI) Warren, OH                           | 1.3  | 3.1    | 2.0    | 2.7  | 1.3  | 4.4     | 5.7  | 5.3  | 2.0            | 3.2  | 4.3  | 7.3  |
| (3V10) (541GJ) New Philadelphia, OH                 | 0.6  | 0.5    | 2.2    | 3.6  | 0.9  | 0.3     | 4.1  | 3.4  | 2.0            | 1.0  | 6.7  | 3.6  |
| (3V10) (541GK) Ravenna, OH                          | 1.0  | 0.2    | 3.9    | 5.2  | 0.6  | 0.2     | 1.7  | 3.1  | 1.4            | 1.0  | 3.5  | 4.3  |
| (3V10) (541GL) Parma, OH                            | 1.2  | 2.0    | 3.2    | 5.4  | 1.4  | 5.3     | 3.6  | 6.2  | 2.2            | 4.2  | 7.2  | 8.2  |
| (3V10) (541GN) State Street, OH                     | N/A  | N/A    | 3.2    | 4.9  | N/A  | N/A     | 1.0  | N/A  | N/A            | N/A  | 9.2  | 9.1  |

N/A: Not Available

**Source: VSSC Completed Appointments Cube** 



# Access

# **Established Patient Appointments (FY15-18), cont.**

Average Established Patient Wait (Days) from Preferred Date (PD)

|   |      | Mental | Health |      |      | Primary | Care |      |      | Specialt | y Care |      |
|---|------|--------|--------|------|------|---------|------|------|------|----------|--------|------|
| Facility                                      | FY15 | FY16   | FY17   | FY18 | FY15 | FY16    | FY17 | FY18 | FY15 | FY16     | FY17   | FY18 |
| (3V10) (541QF) Cuyahoga County 4, OH - Mobile | N/A  | N/A    | N/A    | N/A  | N/A  | N/A     | N/A  | N/A  | N/A  | 12.4     | 25.7   | 25.7 |
| National Average                              | 2.9  | 2.7    | 2.6    | 3.3  | 4.0  | 4.4     | 4.1  | 4.3  | 4.5  | 5.3      | 5.4    | 6.3  |

N/A: Not Available



### Access

# Established Patient Appointments (FY15-18), cont.

Established Patient Percent of Appointments Completed within 30 Days of Clinically Indicated/Patient Preference

|  |        | Mental | Health |       | Primary Care |        |        |       | Specialty Care |       |       |       |
|--|--------|--------|--------|-------|--------------|--------|--------|-------|----------------|-------|-------|-------|
| Facility                               | FY15   | FY16   | FY17   | FY18  | FY15         | FY16   | FY17   | FY18  | FY15           | FY16  | FY17  | FY18  |
| (V10) (541) Cleveland-Ohio             | 99.6%  | 97.9%  | 96.5%  | 95.8% | 97.6%        | 94.3%  | 95.5%  | 92.1% | 98.2%          | 94.8% | 91.7% | 92.4% |
| (V10) (541BY) Canton                   | 99.9%  | 99.8%  | 99.5%  | 95.9% | 98.7%        | 95.2%  | 97.0%  | 96.8% | 95.0%          | 92.5% | 85.4% | 92.6% |
| (V10) (541BZ) Youngstown               | 96.9%  | 98.5%  | 98.4%  | 99.2% | 99.3%        | 98.5%  | 96.1%  | 97.8% | 98.5%          | 99.6% | 98.7% | 97.7% |
| (V10) (541GB) Lorain                   | 98.7%  | 98.8%  | 99.3%  | 98.8% | 99.9%        | 99.9%  | 98.1%  | 96.5% | 99.9%          | 99.8% | 98.4% | 98.0% |
| (V10) (541GC) Sandusky                 | 99.2%  | 99.6%  | 99.6%  | 96.7% | 98.0%        | 99.6%  | 96.0%  | 97.3% | 95.8%          | 99.7% | 94.5% | 94.2% |
| (V10) (541GD) Mansfield                | 99.8%  | 99.9%  | 99.5%  | 98.6% | 98.3%        | 99.8%  | 98.4%  | 98.6% | 98.2%          | 99.4% | 97.5% | 97.0% |
| (V10) (541GE) McCafferty               | 99.0%  | 99.4%  | 97.8%  | 97.9% | 98.5%        | 100.0% | 99.5%  | 98.5% | 98.3%          | 99.9% | 99.5% | 98.9% |
| (V10) (541GF) Lake County              | 99.7%  | 99.9%  | 99.2%  | 98.3% | 99.9%        | 99.9%  | 96.2%  | 96.8% | 93.4%          | 97.0% | 93.6% | 97.0% |
| (V10) (541GG) Akron                    | 96.5%  | 99.2%  | 96.8%  | 93.5% | 98.6%        | 99.0%  | 97.9%  | 97.6% | 99.2%          | 95.8% | 94.7% | 95.2% |
| (V10) (541GH) East Liverpool           | 98.7%  | 99.6%  | 98.1%  | 96.5% | 99.8%        | 99.9%  | 94.5%  | 98.0% | 98.9%          | 99.5% | 90.1% | 95.0% |
| (V10) (541GI) Warren                   | 99.9%  | 99.1%  | 99.5%  | 99.0% | 99.8%        | 97.6%  | 94.8%  | 95.4% | 98.8%          | 98.7% | 97.2% | 93.5% |
| (V10) (541GJ) New Philadelphia         | 100.0% | 99.7%  | 99.5%  | 98.3% | 99.2%        | 100.0% | 95.9%  | 97.5% | 97.6%          | 99.4% | 92.3% | 97.7% |
| (V10) (541GK) Ravenna                  | 99.8%  | 99.8%  | 96.1%  | 94.6% | 99.6%        | 99.8%  | 98.9%  | 97.6% | 98.9%          | 99.1% | 97.5% | 95.9% |
| (V10) (541GL) Parma                    | 99.3%  | 99.1%  | 98.7%  | 96.0% | 99.2%        | 96.5%  | 98.1%  | 94.9% | 97.7%          | 95.6% | 93.1% | 91.4% |
| (V10) (541GN) State Street-Painesville | N/A    | N/A    | 99.5%  | 97.4% | N/A          | N/A    | 100.0% | N/A   | N/A            | N/A   | 85.2% | 89.9% |

N/A: Not Available

**Source: VSSC Completed Appointments Cube** 



# Access

# Established Patient Appointments (FY15-18), cont.

Established Patient Percent of Appointments Completed within 30 Days of Clinically Indicated/Patient Preference

|  |       | Menta | Health |       |       | Primar | y Care |       |       | Special | ty Care |       |
|--|-------|-------|--------|-------|-------|--------|--------|-------|-------|---------|---------|-------|
| Facility                               | FY15  | FY16  | FY17   | FY18  | FY15  | FY16   | FY17   | FY18  | FY15  | FY16    | FY17    | FY18  |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A   | N/A   | N/A    | N/A   | N/A   | N/A    | N/A    | N/A   | N/A   | 84.0%   | 73.8%   | 77.0% |
| National Average                       | 97.7% | 98.2% | 98.5%  | 97.6% | 96.8% | 96.8%  | 97.4%  | 97.2% | 96.1% | 95.3%   | 95.5%   | 94.5% |

N/A: Not Available



# Access

### **New Patient Appointments (FY15-18)**

Average New Patient Average Wait (Days) from Create Date (CD)

|   |      | Mental | Health |      |      | Prima | ry Care |      | Specialty Care |      |      |      |
|---|------|--------|--------|------|------|-------|---------|------|----------------|------|------|------|
| Facility  | FY15 | FY16   | FY17   | FY18 | FY15 | FY16  | FY17    | FY18 | FY15           | FY16 | FY17 | FY18 |
| (3V10) (541) Cleveland, OH (Louis Stokes Cleveland) | 12.6 | 11.5   | 12.8   | 11.6 | 21.5 | 18.5  | 16.2    | 16.7 | 19.0           | 20.4 | 16.8 | 16.6 |
| (3V10) (541BY) Canton, OH                           | 7.5  | 11.6   | 10.2   | 11.4 | 19.6 | 24.1  | 16.7    | 14.1 | 28.5           | 41.5 | 32.0 | 24.7 |
| (3V10) (541BZ) Youngstown, OH                       | 13.2 | 12.6   | 8.4    | 9.8  | 26.9 | 23.0  | 15.9    | 12.6 | 19.9           | 18.4 | 17.7 | 16.2 |
| (3V10) (541GB) Lorain, OH                           | 6.7  | 5.4    | 4.3    | 8.0  | 10.0 | 14.2  | 14.3    | 17.4 | 13.9           | 10.6 | 13.1 | 13.2 |
| (3V10) (541GC) Sandusky, OH                         | 6.6  | 10.4   | 5.8    | 2.3  | 23.9 | 22.4  | 19.7    | 8.8  | 33.1           | 28.1 | 21.5 | 27.6 |
| (3V10) (541GD) Mansfield, OH (David F. Winder)      | 8.5  | 7.9    | 10.9   | 10.3 | 14.7 | 15.1  | 15.6    | 18.1 | 31.0           | 22.7 | 19.0 | 25.7 |
| (3V10) (541GE) McCafferty, OH                       | 11.5 | 13.5   | 9.4    | 14.1 | 18.6 | 9.2   | 9.1     | 14.3 | 19.6           | 10.5 | 12.0 | 11.9 |
| (3V10) (541GF) Lake County, OH                      | 3.2  | 2.2    | 3.3    | 4.7  | 9.4  | 12.7  | 15.6    | 12.2 | 32.7           | 25.1 | 29.7 | 10.9 |
| (3V10) (541GG) Akron, OH                            | 10.9 | 12.0   | 13.9   | 11.2 | 24.1 | 24.6  | 15.9    | 14.7 | 23.0           | 29.4 | 24.2 | 18.6 |
| (3V10) (541GH) East Liverpool, OH                   | 7.2  | 9.2    | 7.1    | 6.8  | 22.9 | 22.1  | 21.1    | 10.7 | 30.3           | 28.7 | 23.4 | 22.7 |
| (3V10) (541GI) Warren, OH                           | 5.3  | 5.6    | 3.6    | 4.5  | 13.3 | 17.6  | 12.8    | 12.4 | 25.5           | 20.8 | 17.2 | 25.2 |
| (3V10) (541GJ) New Philadelphia, OH                 | 6.2  | 7.8    | 7.1    | 10.2 | 13.1 | 8.8   | 14.9    | 12.2 | 35.5           | 29.3 | 26.2 | 17.4 |
| (3V10) (541GK) Ravenna, OH                          | 11.9 | 11.0   | 7.7    | 7.7  | 17.1 | 14.8  | 13.8    | 17.7 | 30.5           | 28.6 | 21.2 | 26.5 |
| (3V10) (541GL) Parma, OH                            | 6.4  | 9.7    | 11.6   | 13.3 | 26.7 | 26.0  | 11.7    | 17.8 | 22.2           | 24.7 | 20.1 | 22.0 |
| (3V10) (541GN) State Street, OH                     | N/A  | N/A    | 2.7    | 7.6  | N/A  | N/A   | N/A     | N/A  | N/A            | N/A  | 23.9 | 28.7 |

N/A: Not Available

**Source: VSSC Completed Appointments Cube** 



# Access

### New Patient Appointments (FY15-18), cont.

Average New Patient Average Wait (Days) from Create Date (CD)

|   |      | Mental | Health |      |      | Prima | ary Care |      |      | Specialt | y Care |      |
|---|------|--------|--------|------|------|-------|----------|------|------|----------|--------|------|
| Facility                                      | FY15 | FY16   | FY17   | FY18 | FY15 | FY16  | FY17     | FY18 | FY15 | FY16     | FY17   | FY18 |
| (3V10) (541QF) Cuyahoga County 4, OH - Mobile | N/A  | N/A    | N/A    | N/A  | N/A  | N/A   | N/A      | N/A  | N/A  | 71.7     | 95.2   | 90.2 |
| National Average                              | 12.4 | 12.0   | 11.3   | 11.3 | 21.2 | 22.7  | 22.6     | 21.2 | 21.5 | 21.2     | 21.0   | 22.5 |

N/A: Not Available



# Access New Patient Appointments (FY15-18), cont.

Percent of New Patient Appointments Completed within 30 Days

|  |       | Mental H | Health |       | Primary Care |       |        |       | Specialty Care |       |       |       |
|--|-------|----------|--------|-------|--------------|-------|--------|-------|----------------|-------|-------|-------|
| Facility                               | FY15  | FY16     | FY17   | FY18  | FY15         | FY16  | FY17   | FY18  | FY15           | FY16  | FY17  | FY18  |
| (V10) (541) Cleveland-Ohio             | 90.3% | 94.6%    | 93.4%  | 93.7% | 70.8%        | 82.5% | 90.0%  | 91.2% | 80.1%          | 77.1% | 85.6% | 86.8% |
| (V10) (541BY) Canton                   | 96.5% | 92.1%    | 95.9%  | 92.7% | 81.3%        | 70.9% | 93.5%  | 91.3% | 56.6%          | 47.5% | 58.1% | 62.3% |
| (V10) (541BZ) Youngstown               | 79.8% | 85.3%    | 93.1%  | 93.9% | 52.5%        | 63.7% | 86.9%  | 92.6% | 87.3%          | 83.1% | 88.2% | 87.1% |
| (V10) (541GB) Lorain                   | 95.9% | 96.1%    | 98.6%  | 96.6% | 95.8%        | 94.0% | 91.8%  | 85.1% | 92.6%          | 95.9% | 93.4% | 92.9% |
| (V10) (541GC) Sandusky                 | 97.4% | 96.1%    | 98.8%  | 99.5% | 72.5%        | 86.3% | 86.5%  | 96.9% | 53.8%          | 59.3% | 79.6% | 68.1% |
| (V10) (541GD) Mansfield                | 93.8% | 97.0%    | 92.8%  | 95.3% | 91.9%        | 92.5% | 84.5%  | 89.2% | 66.4%          | 76.0% | 77.9% | 70.2% |
| (V10) (541GE) McCafferty               | 88.0% | 88.2%    | 92.5%  | 84.1% | 86.1%        | 97.7% | 100.0% | 89.4% | 87.0%          | 97.3% | 98.0% | 96.4% |
| (V10) (541GF) Lake County              | 99.3% | 100.0%   | 99.6%  | 98.9% | 98.3%        | 93.6% | 85.2%  | 90.4% | 55.2%          | 68.7% | 61.7% | 90.5% |
| (V10) (541GG) Akron                    | 86.6% | 90.6%    | 93.1%  | 91.5% | 74.6%        | 63.5% | 91.2%  | 91.9% | 74.9%          | 60.0% | 65.9% | 80.2% |
| (V10) (541GH) East Liverpool           | 94.7% | 95.0%    | 97.4%  | 94.9% | 76.8%        | 70.6% | 81.3%  | 89.3% | 62.4%          | 57.3% | 73.8% | 71.7% |
| (V10) (541GI) Warren                   | 97.8% | 96.6%    | 98.6%  | 98.4% | 95.6%        | 84.5% | 94.3%  | 97.2% | 62.1%          | 81.8% | 89.2% | 69.8% |
| (V10) (541GJ) New Philadelphia         | 99.3% | 97.2%    | 97.8%  | 95.1% | 92.8%        | 96.5% | 87.2%  | 93.5% | 49.2%          | 53.5% | 60.8% | 81.1% |
| (V10) (541GK) Ravenna                  | 92.6% | 92.2%    | 96.7%  | 95.7% | 85.9%        | 91.3% | 90.7%  | 84.3% | 58.1%          | 52.4% | 79.5% | 59.7% |
| (V10) (541GL) Parma                    | 96.1% | 96.0%    | 96.8%  | 90.1% | 58.6%        | 58.5% | 95.9%  | 87.6% | 75.9%          | 74.2% | 79.7% | 72.8% |
| (V10) (541GN) State Street-Painesville | N/A   | N/A      | 100.0% | 83.3% | N/A          | N/A   | N/A    | N/A   | N/A            | N/A   | 68.4% | 68.8% |

N/A: Not Available

**Source: VSSC Completed Appointments Cube** 



## Access

# New Patient Appointments (FY15-18), cont.

Percent of New Patient Appointments Completed within 30 Days

|  |       | Mental I | Health |      |       | Prima | ry Care |      |       | Specia | lty Care |       |
|--|-------|----------|--------|------|-------|-------|---------|------|-------|--------|----------|-------|
| Facility                               | FY15  | FY16     | FY17   | FY18 | FY15  | FY16  | FY17    | FY18 | FY15  | FY16   | FY17     | FY18  |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A   | N/A      | N/A    | N/A  | N/A   | N/A   | N/A     | N/A  | N/A   | 22.5%  | 15.3%    | 18.4% |
| National Average                       | 90.1% | 90.8%    | 91.2%  | N/A  | 76.4% | 73.2% | 73.8%   | N/A  | 75.2% | 76.2%  | 76.3%    | N/A   |

N/A: Not Available



### Access

## **Average Wait Time for Top 10 Consults – Cleveland-Ohio**

| Receiving Service Stop Code<br>(Top 10 by FY18 Consults) | Receiving Facility         | FY18 Consults | Average Days to<br>Completed Consult |
|--|----------------------------|---------------|--------------------------------------|
| (307) GASTROENTEROLOGY                                   | (V10) (541) Cleveland-Ohio | 12,695        | 33.3                                 |
| (303) CARDIOLOGY   | (V10) (541) Cleveland-Ohio | 11,145        | 27.6                                 |
| (315) NEUROLOGY  | (V10) (541) Cleveland-Ohio | 11,317        | 25.1                                 |
| (104) PULMONARY FUNCTION                                 | (V10) (541) Cleveland-Ohio | 12,586        | 24.7                                 |
| (401) GENERAL SURGERY                                    | (V10) (541) Cleveland-Ohio | 13,569        | 19.6                                 |
| (323) PRIMARY CARE/MEDICINE                              | (V10) (541) Cleveland-Ohio | 21,747        | 17.5                                 |
| (421) VASCULAR LABORATORY                                | (V10) (541) Cleveland-Ohio | 17,011        | 16.5                                 |
| (205) PHYSICAL THERAPY                                   | (V10) (541) Cleveland-Ohio | 27,645        | 14.3                                 |
| (408) OPTOMETRY  | (V10) (541) Cleveland-Ohio | 19,101        | 6.7                                  |
| (407) OPHTHALMOLOGY                                      | (V10) (541) Cleveland-Ohio | 19,013        | 4.6                                  |

Source: VSSC Consults Cube V2 8.6.V10.NortheastOhio.541



### Access

# **Longest Wait Time – Top 10 Consults**

| Receiving Service Stop Code                     | Receiving Facility         | FY18 Consults | Average Days to<br>Completed Consult<br>(Top 10 Stop Codes) |
|---|----------------------------|---------------|---|
| (139) HEALTH AND WELL-BEING SERVICES            | (V10) (541) Cleveland-Ohio | 53            | 243.6   |
| (311) PACEMAKER                                 | (V10) (541) Cleveland-Ohio | 294           | 52.2  |
| (433) PRE-SURG EVAL BY NURSING                  | (V10) (541) Cleveland-Ohio | 1             | 48.0  |
| (209) VIST COORDINATOR                          | (V10) (541) Cleveland-Ohio | 391           | 42.5  |
| (525) WOMENS STRESS DISORDER TEAM               | (V10) (541) Cleveland-Ohio | 363           | 36.5  |
| (166) CHAPLAIN SERVICE - INDIVIDUAL             | (V10) (541) Cleveland-Ohio | 146           | 35.5  |
| (307) GASTROENTEROLOGY                          | (V10) (541) Cleveland-Ohio | 12,695        | 33.3  |
| (322) Comprehensive Women's Primary Care Clinic | (V10) (541) Cleveland-Ohio | 838           | 32.2  |
| (334) CARDIAC STRESS TEST                       | (V10) (541) Cleveland-Ohio | 3,121         | 30.0  |
| (302) ALLERGY IMMUNOLOGY                        | (V10) (541) Cleveland-Ohio | 264           | 28.9  |

8.7.V10.NortheastOhio.541 Source: VSSC Consults Cube V2



# **Access Estimated Capacity for Outpatient Workload**

|  | Primary Care PACT Teams |                     |   |         |                     |                          |                          |                   |                  |                   |                    |  |  |
|--|-------------------------|---------------------|---|---------|---------------------|--------------------------|--------------------------|-------------------|------------------|-------------------|--------------------|--|--|
|  | FY18                    | FY18                | FY18 Actual Primary<br>Care (PC) Encounters |         | Count<br>of Primary | Number of<br>Teams at or | Number of<br>Teams at or | Team PCP          |                  |                   | 3rd Next           |  |  |
| VA Facility                            | Total<br>Uniques        | Total<br>Encounters | Primary Care<br>Encounters                  | Uniques | Care<br>PACT Teams  | over<br>Capacity         | under<br>Capacity        | Capacity<br>Total | Capacity<br>Left | Panel<br>Fullness | Available<br>Appt. |  |  |
| (V10) (541) Cleveland-Ohio             | 92,952                  | 1,134,922           | 47,573                                      | 13,247  | 7                   | 4                        | 2                        | 2,261             | -1               | 100.0%            | 21.0               |  |  |
| (V10) (541BY) Canton                   | 12,032                  | 99,071              | 29,086                                      | 9,686   | 8                   | 6                        | 2                        | 6,774             | -656             | 110.0%            | 12.2               |  |  |
| (V10) (541BZ) Youngstown               | 10,388                  | 88,999              | 25,299                                      | 7,526   | 5                   | 5                        | 0                        | 3,929             | -560             | 114.0%            | 6.9                |  |  |
| (V10) (541GB) Lorain                   | 9,915                   | 53,075              | 17,692                                      | 6,966   | 8                   | 1                        | 3                        | 4,738             | 777              | 84.0%             | 5.9                |  |  |
| (V10) (541GC) Sandusky                 | 4,328                   | 25,231              | 9,133                                       | 3,818   | 2                   | 0                        | 2                        | 1,792             | -57              | 103.0%            | 6.4                |  |  |
| (V10) (541GD) Mansfield                | 7,718                   | 77,343              | 21,941                                      | 6,907   | 4                   | 1                        | 1                        | 1,901             | -71              | 104.0%            | 16.6               |  |  |
| (V10) (541GE) McCafferty               | 1,823                   | 11,099              | 3,803                                       | 1,464   | 1                   | 0                        | 1                        | 885               | 164              | 81.0%             | 8.3                |  |  |
| (V10) (541GF) Lake County              | 6,621                   | 36,466              | 16,631                                      | 5,950   | 8                   | 2                        | 2                        | 3,506             | 730              | 79.0%             | 5.1                |  |  |
| (V10) (541GG) Akron                    | 16,356                  | 122,952             | 31,213                                      | 11,026  | 12                  | 10                       | 2                        | 6,097             | -553             | 109.0%            | 8.6                |  |  |
| (V10) (541GH) East Liverpool           | 3,435                   | 23,773              | 8,628                                       | 3,108   | 2                   | 0                        | 2                        | 1,509             | 66               | 96.0%             | 3.9                |  |  |
| (V10) (541GI) Warren                   | 4,982                   | 30,552              | 12,448                                      | 4,543   | 1                   | 0                        | 1                        | 1,137             | 67               | 94.0%             | 3.8                |  |  |
| (V10) (541GJ) New Philadelphia         | 3,704                   | 34,245              | 10,229                                      | 3,201   | 1                   | 1                        | 0                        | 716               | -62              | 109.0%            | 8.6                |  |  |
| (V10) (541GK) Ravenna                  | 3,924                   | 23,618              | 9,930                                       | 3,557   | 4                   | 2                        | 2                        | 1,592             | -63              | 104.0%            | 9.9                |  |  |
| (V10) (541GL) Parma                    | 27,294                  | 189,386             | 32,997                                      | 11,603  | 10                  | 6                        | 4                        | 7,857             | -695             | 109.0%            | 9.5                |  |  |
| (V10) (541GM) Cleveland-Superior       | 2,338                   | 3,007               | N/A   | N/A     | N/A                 | N/A                      | N/A                      | N/A               | N/A              | N/A               | N/A                |  |  |
| (V10) (541GN) State Street-Painesville | 3,636                   | 12,945              | N/A   | N/A     | N/A                 | N/A                      | N/A                      | N/A               | N/A              | N/A               | 21.6               |  |  |
| (V10) (541QA) Summit County            | 1,115                   | 10,861              | N/A   | N/A     | N/A                 | N/A                      | N/A                      | N/A               | N/A              | N/A               | N/A                |  |  |
| (V10) (541QB) Cleveland-Euclid         | 1,515                   | 22,991              | N/A   | N/A     | N/A                 | N/A                      | N/A                      | N/A               | N/A              | N/A               | N/A                |  |  |
| (V10) (541QF) Cuyahoga County 4 Mobile | 1,706                   | 2,497               | N/A   | N/A     | N/A                 | N/A                      | N/A                      | N/A               | N/A              | N/A               | N/A                |  |  |



Access

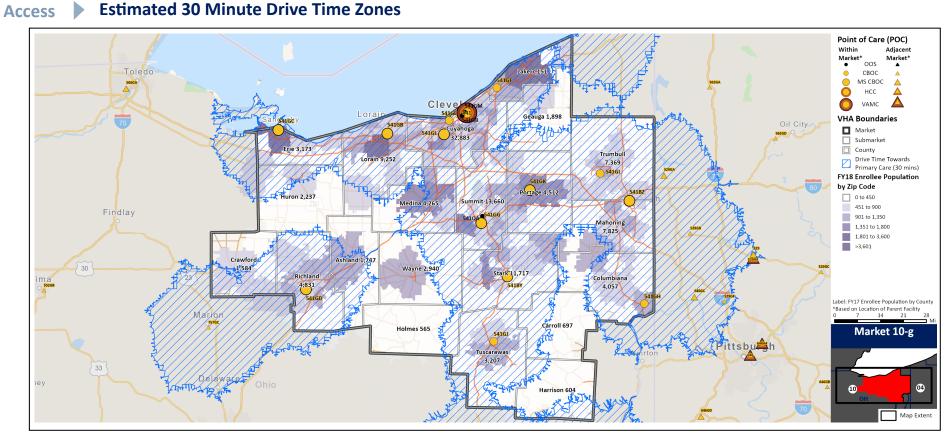
# **Estimated Capacity for Outpatient Workload, cont.**

|                                | Other Teams       |      |                |            |            |          |        |       |  |  |  |  |
|--------------------------------|-------------------|------|----------------|------------|------------|----------|--------|-------|--|--|--|--|
| VA Facility                    | Tele Primary Care | НВРС | Women's Health | Geriatrics | Speciality | Academic | Other* | Total |  |  |  |  |
| (V10) (541) Cleveland-Ohio     | N/A               | N/A  | 8              | 11         | 4          | 44       | 1      | 68    |  |  |  |  |
| (V10) (541BY) Canton           | N/A               | N/A  | 3              | N/A        | N/A        | N/A      | N/A    | 3     |  |  |  |  |
| (V10) (541BZ) Youngstown       | N/A               | N/A  | 3              | N/A        | N/A        | N/A      | N/A    | 3     |  |  |  |  |
| (V10) (541GB) Lorain           | 1                 | N/A  | 3              | N/A        | N/A        | N/A      | N/A    | 4     |  |  |  |  |
| (V10) (541GC) Sandusky         | N/A               | N/A  | 2              | N/A        | N/A        | N/A      | N/A    | 2     |  |  |  |  |
| (V10) (541GD) Mansfield        | 2                 | N/A  | 8              | N/A        | N/A        | N/A      | N/A    | 10    |  |  |  |  |
| (V10) (541GE) McCafferty       | N/A               | N/A  | 1              | N/A        | N/A        | N/A      | N/A    | 1     |  |  |  |  |
| (V10) (541GF) Lake County      | 1                 | N/A  | 6              | N/A        | N/A        | N/A      | N/A    | 7     |  |  |  |  |
| (V10) (541GG) Akron            | N/A               | 1    | 8              | N/A        | N/A        | N/A      | N/A    | 9     |  |  |  |  |
| (V10) (541GH) East Liverpool   | 1                 | N/A  | 2              | N/A        | N/A        | N/A      | N/A    | 3     |  |  |  |  |
| (V10) (541GI) Warren           | N/A               | N/A  | 3              | N/A        | N/A        | N/A      | N/A    | 3     |  |  |  |  |
| (V10) (541GJ) New Philadelphia | 1                 | N/A  | 5              | N/A        | N/A        | N/A      | N/A    | 6     |  |  |  |  |
| (V10) (541GK) Ravenna          | 1                 | N/A  | 2              | N/A        | N/A        | N/A      | N/A    | 3     |  |  |  |  |
| (V10) (541GL) Parma            | N/A               | 1    | 3              | N/A        | N/A        | N/A      | N/A    | 4     |  |  |  |  |

Source: VSSC PACT Compass Cube 8.15.V10.NortheastOhio

<sup>\*</sup>Other includes Post Deployment and Homeless Teams

# 5 Fetimental 20 Minute Drive Time 7and



Source: Geocoded Enrollee File FY18Q4

### Access

### Clinic Utilization — Percent Slots Used of Total Slots

|  | Mental Health |       |       | Primary Care |       |       |       | Specialty Care |       |       |       |       |
|--|---------------|-------|-------|--------------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Facility                               | FY15          | FY16  | FY17  | FY18         | FY15  | FY16  | FY17  | FY18           | FY15  | FY16  | FY17  | FY18  |
| (V10) (541) Cleveland-Ohio             | 44.0%         | 47.0% | 46.0% | 49.0%        | 49.0% | 63.0% | 69.0% | 68.0%          | 66.0% | 68.0% | 64.0% | 61.0% |
| (V10) (541BY) Canton                   | 55.0%         | 60.0% | 50.0% | 64.0%        | 58.0% | 55.0% | 49.0% | 51.0%          | 87.0% | 87.0% | 85.0% | 81.0% |
| (V10) (541BZ) Youngstown               | 59.0%         | 63.0% | 67.0% | 70.0%        | 56.0% | 68.0% | 59.0% | 62.0%          | 81.0% | 82.0% | 85.0% | 84.0% |
| (V10) (541GB) Lorain                   | 62.0%         | 62.0% | 69.0% | 65.0%        | 52.0% | 57.0% | 47.0% | 53.0%          | 81.0% | 78.0% | 80.0% | 78.0% |
| (V10) (541GC) Sandusky                 | 41.0%         | 54.0% | 40.0% | 54.0%        | 55.0% | 60.0% | 44.0% | 41.0%          | 78.0% | 71.0% | 62.0% | 63.0% |
| (V10) (541GD) Mansfield                | 62.0%         | 65.0% | 68.0% | 68.0%        | 54.0% | 58.0% | 50.0% | 59.0%          | 83.0% | 88.0% | 88.0% | 87.0% |
| (V10) (541GE) McCafferty               | 46.0%         | 41.0% | 33.0% | 37.0%        | 40.0% | 36.0% | 29.0% | 40.0%          | 38.0% | 46.0% | 56.0% | 51.0% |
| (V10) (541GF) Lake County              | 30.0%         | 33.0% | 35.0% | 65.0%        | 52.0% | 58.0% | 47.0% | 50.0%          | 88.0% | 87.0% | 78.0% | 78.0% |
| (V10) (541GG) Akron                    | 41.0%         | 58.0% | 53.0% | 70.0%        | 51.0% | 58.0% | 47.0% | 57.0%          | 66.0% | 67.0% | 77.0% | 74.0% |
| (V10) (541GH) East Liverpool           | 72.0%         | 69.0% | 59.0% | 63.0%        | 68.0% | 69.0% | 49.0% | 50.0%          | 87.0% | 83.0% | 83.0% | 81.0% |
| (V10) (541GI) Warren                   | 62.0%         | 66.0% | 66.0% | 62.0%        | 28.0% | 41.0% | 32.0% | 32.0%          | 86.0% | 71.0% | 74.0% | 80.0% |
| (V10) (541GJ) New Philadelphia         | 53.0%         | 44.0% | 38.0% | 52.0%        | 42.0% | 48.0% | 39.0% | 51.0%          | 92.0% | 88.0% | 87.0% | 79.0% |
| (V10) (541GK) Ravenna                  | 58.0%         | 61.0% | 74.0% | 74.0%        | 51.0% | 52.0% | 48.0% | 52.0%          | 89.0% | 60.0% | 57.0% | 60.0% |
| (V10) (541GL) Parma                    | 60.0%         | 63.0% | 62.0% | 64.0%        | 58.0% | 60.0% | 54.0% | 65.0%          | 77.0% | 81.0% | 81.0% | 81.0% |
| (V10) (541GN) State Street-Painesville | -             | -     | 33.0% | 36.0%        | =     | -     | 20.0% | -              | -     | -     | 89.0% | 90.0% |
| (V10) (541QF) Cuyahoga County 4 Mobile | -             | -     | -     | -            | -     | -     | -     | -              | -     | 96.0% | 96.0% | 96.0% |

Source: VSSC Clinic Utilization Cube 8.10.V10.NortheastOhio



### Access

# **Cancelled by Clinic Report**

|  | Mental Health |        |        |        |        | Primary Care |        |        |        | Specialty Care |        |        |  |
|--|---------------|--------|--------|--------|--------|--------------|--------|--------|--------|----------------|--------|--------|--|
| Facility                               | FY15          | FY16   | FY17   | FY18   | FY15   | FY16         | FY17   | FY18   | FY15   | FY16           | FY17   | FY18   |  |
| (V10) (541) Cleveland-Ohio             | 5,569         | 5,033  | 5,168  | 3,668  | 3,455  | 2,844        | 2,923  | 2,627  | 16,416 | 17,106         | 15,950 | 13,799 |  |
| (V10) (541BY) Canton                   | 2,018         | 1,097  | 1,348  | 1,219  | 1,882  | 1,874        | 2,763  | 2,119  | 1,043  | 1,494          | 1,883  | 1,730  |  |
| (V10) (541BZ) Youngstown               | 1,408         | 1,201  | 1,174  | 961    | 1,807  | 1,647        | 1,205  | 1,121  | 1,597  | 1,233          | 1,147  | 766    |  |
| (V10) (541GB) Lorain                   | 469           | 494    | 701    | 803    | 548    | 712          | 1,270  | 1,161  | 347    | 373            | 407    | 387    |  |
| (V10) (541GC) Sandusky                 | 452           | 421    | 510    | 496    | 579    | 614          | 327    | 311    | 445    | 200            | 302    | 324    |  |
| (V10) (541GD) Mansfield                | 856           | 556    | 1,244  | 873    | 903    | 788          | 1,215  | 1,222  | 402    | 474            | 702    | 859    |  |
| (V10) (541GE) McCafferty               | 188           | 213    | 225    | 252    | 264    | 270          | 488    | 296    | 20     | 62             | 78     | 68     |  |
| (V10) (541GF) Lake County              | 689           | 474    | 161    | 60     | 1,162  | 672          | 1,228  | 640    | 644    | 366            | 148    | 62     |  |
| (V10) (541GG) Akron                    | 1,213         | 772    | 1,226  | 1,544  | 2,872  | 2,255        | 2,685  | 2,051  | 1,333  | 1,363          | 2,169  | 1,498  |  |
| (V10) (541GH) East Liverpool           | 577           | 305    | 441    | 413    | 821    | 782          | 1,376  | 891    | 257    | 147            | 184    | 141    |  |
| (V10) (541GI) Warren                   | 988           | 407    | 487    | 418    | 883    | 581          | 453    | 469    | 509    | 287            | 411    | 462    |  |
| (V10) (541GJ) New Philadelphia         | 267           | 291    | 297    | 395    | 516    | 384          | 789    | 597    | 310    | 303            | 396    | 263    |  |
| (V10) (541GK) Ravenna                  | 239           | 288    | 385    | 492    | 510    | 378          | 577    | 874    | 478    | 288            | 267    | 281    |  |
| (V10) (541GL) Parma                    | 1,972         | 1,879  | 2,101  | 1,950  | 1,747  | 1,620        | 1,730  | 1,831  | 2,632  | 2,873          | 2,476  | 1,941  |  |
| (V10) (541GN) State Street-Painesville | N/A           | N/A    | 403    | 460    | N/A    | N/A          | 2      | N/A    | N/A    | N/A            | 432    | 561    |  |
| (V10) (541QF) Cuyahoga County 4 Mobile | N/A           | N/A    | N/A    | N/A    | N/A    | N/A          | N/A    | N/A    | N/A    | 103            | 79     | 68     |  |
| Total                                  | 16,905        | 13,431 | 15,871 | 14,004 | 17,949 | 15,421       | 19,031 | 16,210 | 26,433 | 26,672         | 27,031 | 23,210 |  |

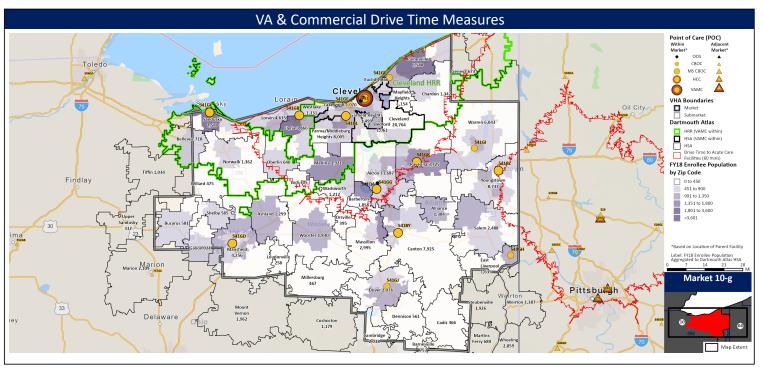
Note: Appointments cancelled within 45 days

Source: VSSC No Show and Cancellation Cube 8.11.V10.NortheastOhio



### Access

### **Market/Parent Facility Existing VA Drive Times Assessment**



Note: A Dartmouth Atlas Hospital Service Area (HSA) is a ZIP code-defined geography encompassing the community where the ZIP code's Medicare residents predominantly receive their hospital care. HSA total enrollees are displayed on map. A Dartmouth Atlas Hospital Referral Region (HRR) is a ZIP code-defined geography encompassing the community where the ZIP code's Medicare residents predominantly receive their cardiovascular and neurosurgery hospital care.





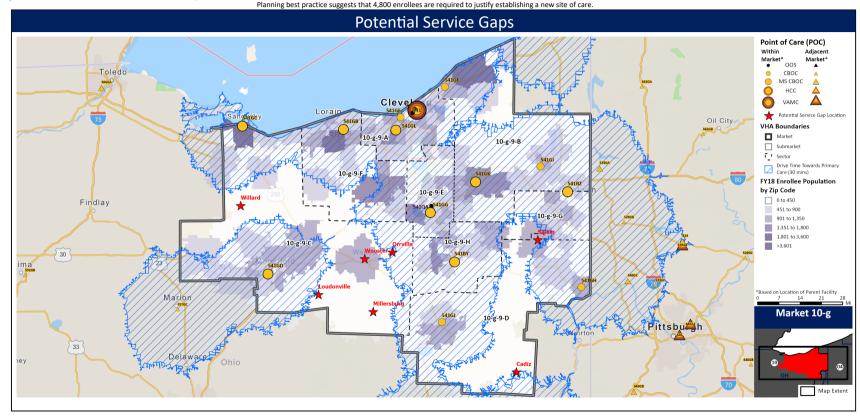
|           |                | Prima                        | ry Care  |  | Secondary Care   |   |   |  |  |
|-----------|----------------|------------------------------|--|--|--|---|---|--|--|
| of Total  | # of enrollees | % of enrollees               | # of enrollees   | % of enrollees   | # of enrollees   | % of enrollees  | # of enrollees  | % of enrollees   |  |
| inrollees | within 30      | within 30                    | outside 30   | outside 30   | within 60  | within 60   | outside 60  | outside 60   |  |
|           | minutes drive  | minutes                      | minutes drive  | minutes  | minutes drive  | minutes   | minutes drive   | minutes  |  |
|           | time           |                              | time   |  | time   |   | time  |  |  |
| 131 483   | 123 636        | 94.0%                        | 7 847  | 6.0%   | 78 224   | 59.5%   | 53 259  | 40.5%  |  |
|           |                | within 30 minutes drive time | # of enrollees within 30 minutes drive time % of enrollees within 30 minutes | mrollees within 30 within 30 outside 30 minutes drive time within 30 inductes drive time | of Total mrollees within 30 minutes drive time # of enrollees within 30 minutes drive time # of enrollees within 30 minutes drive time # of enrollees outside 30 minutes drive time # of enrollees outside 30 minutes drive time | of Total mollees within 30 within 30 minutes drive time # of enrollees outside 30 minutes drive time | # of enrollees within 30 winutes drive time  # of enrollees within 30 minutes drive time  # of enrollees outside 30 minutes drive time  # of enrollees outside 30 minutes drive time  # of enrollees outside 30 minutes drive time  # of enrollees within 60 minutes drive time  # of enrollees outside 30 minutes drive time | of Total mollees within 30 minutes drive time # of enrollees within 30 minutes drive time # of enrollees within 30 minutes drive time # of enrollees outside 30 minutes drive time # of enrollees within 60 minutes drive time # of enrollees within 60 minutes drive time # of enrollees outside 30 minutes drive time # of enrollees within 60 minutes drive time # of enrollees outside 60 minutes drive time |  |



Access

### **Potential Service Gaps**

Potential service gaps are areas identified by the Dartmouth Atlas in a Hospital Service Area (HSA). The medical community in these areas provides opportunities to consider different tactics to extend the VA network of care. Strategies for expansion might include telehealth, FQHC partnership, unique rural outreach, contracted provider(s), or a new VA asset. The following page shows the number of Enrollees that reside within a particular HSA.



# Access Potential Service Gaps, cont.

Potential service gaps are areas identified by the Dartmouth Atlas in a Hospital Service Area (HSA). The medical community in these areas provides opportunities to consider different tactics to extend the VA network of care. Strategies for expansion might include telehealth, FQHC partnership, unique rural outreach, contracted provider(s), or a new VA asset. The table below shows the number of Enrollees that reside within a particular HSA. Planning best practice suggests that 4,800 enrollees are required to justify establishing a new site of care.

| Existing VA Point of<br>Care | Potential Service<br>Gaps | Enrollees    | Areas with VA Points of<br>Care | Atlas HSA      | Enrollees |
|------------------------------|---------------------------|--------------|---------------------------------|----------------|-----------|
|                              | Salem                     | 2,549        |                                 | Mansfield      | 4,389     |
|                              | Wooster                   | 1,892        | (V10) (541GD) Mansfield         | Ashland        | 1,259     |
| No Current Facility          | Willard                   | 616          | (VIO) (341GD) Malisticia        | Galion         | 963       |
|                              | Millersburg               | 488          |                                 | Shelby         | 597       |
| Time                         | Orrville                  | 406          | (V10) (541GE) McCafferty        | Lakewood       | 1,010     |
|                              | Cadiz                     | 380          |                                 | Akron          | 11,204    |
|                              | Loudonville               | 244          |                                 | Medina         | 2,029     |
|                              | eo da do mine             | 211          | (V10) (541GG) Akron             | Barberton      | 1,765     |
| Areas with VA Points of      | 1                         |              |                                 | Wadsworth      | 1,297     |
| Care                         | Atlas HSA                 | Enrollees    |                                 | Lodi           | 303       |
|                              | Canton                    | 8,389        | 1/10) /F41 CF)   -  A+          | Painesville    | 6,432     |
| (V10) (541BY) Canton         | Massillon                 | 3,308        | V10) (541GF) Lake Atlas<br>HSA  | Euclid         | 1,732     |
|                              | Alliance                  | 1,386        |                                 | Chardon        | 1,218     |
| (V10) (541BZ) Youngstow      | Youngstown                | 8,302        | (V10) (541GH) East<br>Liverpool | East Liverpool | 1,678     |
|                              | Lorain                    | 4,720        | (V10) (541GI) Warren            | Warren         | 5,812     |
| (V10) (541GB) Lorain         | Elyria                    | 3,966        | (V10) (541GJ) New               | Dover          | 2,145     |
| (*10) (34140) 2014111        | Westlake                  | 1,394        | Philadelphia                    | Dennison       | 617       |
|                              | Oberlin                   | 658          | (V10) (541GK) Ravenna           | Ravenna        | 3,663     |
|                              | Sandusky                  | 2,663        | (V10) (541GL) Parma             | Bedford        | 1,013     |
| (V10) (541GC) Sandusky       | Norwalk<br>Bellevue       | 1,666<br>723 | (V10) (757GC) Marion-<br>Ohio   | Bucyrus        | 661       |
|                              |                           |              |                                 |                |           |



# **Quality & Satisfaction**

# Quality & Satisfaction VA Patient Feedback: Survey of Enrollees – Northeast Ohio Market

| Category                | Sub-Category  | National | Northeast Ohio Market |
|-------------------------|---|----------|-----------------------|
| Insurance (Reliance)    | Have Private Insurance Plan   | 27.6 %   | 28.9 %                |
|                         | Planned Use of VA as Primary Source of Care                               | 40.5 %   | 45.2 %                |
|                         | Uninsured   | 19.2 %   | 21.0 %                |
| Satisfaction (Best Care | Appointments are Always/Nearly Always Easy to Get with VA                 | 45.3 %   | 45.6 %                |
| Anywhere)               | Very Satisfied with Respect Given by Health Care Professionals            | 72.3 %   | 68.8 %                |
|                         | Very Satisfied with the Ability to Get Referrals                          | 32.4 %   | 46.8 %                |
| Access (Choose VA)      | Believes Care in the Community is Easier to Get to than VA (Answered Yes) | 66.0 %   | 60.1 %                |
|                         | Believes Care in the Community Quality is Better than VA (Answered Yes)   | 43.0 %   | 45.9 %                |
| Internet Use            | Internet Use to Look at Health Information (Answered Yes)                 | 76.1 %   | 75.1 %                |
| (Telehealth Potential)  | Used Internet to Make Medical Appointments (Answered Yes)                 | 36.5 %   | 24.3 %                |

<sup>1.</sup> Satisfaction denominator = enrolled Veterans who said they had used VA since January 1, 2016

<sup>2.</sup> Access denominator = enrolled Veterans who said they had used a provider other than VA for some or all of their care since January 1, 2016

<sup>3.</sup> The denominator for Internet Use = enrolled Veterans who said they used the internet at least occasionally



# Quality & Satisfaction VA Patient Satisfaction – Inpatient

|                            |        |        |             | 9     | % Reported | l as Always |       |       |           |          | % Definitely Yes | % Strongly Agree | % 9 or 10 | % Y       | es       |
|----------------------------|--------|--------|-------------|-------|------------|-------------|-------|-------|-----------|----------|------------------|------------------|-----------|-----------|----------|
| Facility                   | Survey | Care   | Cleanliness | Comm  | Comm       | Comm        | Pain  | Comm  | Quietness | Hosp.    | Recom-           | Care             | Hosp.     | Discharge | Shared   |
|                            | Date   | Coord. | of Hospital | about | w/         | w/          | Mgmt. | about | Of        | Staff    | mend             | Transition       | Rating    | Info      | Decision |
|                            |        |        | Envt.       | Meds  | Doctors    | Nurses      |       | Pain  | Hospital  | Respon-  | Hospital         |                  |           |           | Making   |
|                            |        |        |             |       |            |             |       |       | Envt.     | siveness |                  |                  |           |           |          |
| (V10) (541) Cleveland-Ohio | 2015   | 52.1   | 66.6        | 57.4  | 73.7       | 69.3        | 56.9  | N/A   | 51.7      | 50.5     | 62.9             | 47.3             | 62.9      | 87.4      | 74.0     |
| (V10) (541) Cleveland-Ohio | 2016   | 55.1   | 69.5        | 63.9  | 76.0       | 73.7        | 62.5  | N/A   | 57.2      | 57.3     | 65.4             | 53.8             | 67.4      | 90.2      | 75.8     |
| (V10) (541) Cleveland-Ohio | 2017   | 55.5   | 72.4        | 63.7  | 76.5       | 80.4        | 64.1  | N/A   | 55.2      | 58.3     | 70.7             | 53.7             | 70.8      | 89.0      | 74.1     |
| (V10) (541) Cleveland-Ohio | 2018   | 55.3   | 67.4        | 66.0  | 75.0       | 78.1        | N/A   | 58.1  | 52.4      | 53.8     | 73.8             | 52.3             | 71.0      | 89.3      | 76.8     |
| VISN 10 Average            | 2015   | 51.5   | 70.5        | 60.9  | 72.9       | 73.0        | 60.7  | N/A   | 51.6      | 57.6     | 64.6             | 49.3             | 65.8      | 86.4      | 74.1     |
| VISN 10 Average            | 2016   | 53.4   | 72.9        | 63.1  | 74.1       | 74.4        | 59.8  | N/A   | 53.7      | 60.3     | 66.8             | 51.2             | 67.4      | 88.2      | 75.6     |
| VISN 10 Average            | 2017   | 53.4   | 73.5        | 63.3  | 75.6       | 76.0        | 60.6  | N/A   | 52.5      | 59.5     | 68.3             | 51.9             | 67.8      | 87.8      | 75.8     |
| VISN 10 Average            | 2018   | 54.5   | 71.8        | 65.5  | 75.4       | 76.6        | N/A   | 59.1  | 52.8      | 60.4     | 70.1             | 52.7             | 69.6      | 88.3      | 76.7     |
| National Average           | 2015   | 52.0   | 69.9        | 61.2  | 73.8       | 72.1        | 60.1  | N/A   | 49.3      | 58.8     | 65.5             | 49.7             | 64.3      | 84.7      | 74.0     |
| National Average           | 2016   | 53.2   | 70.0        | 61.9  | 74.7       | 73.1        | 60.1  | N/A   | 49.8      | 59.7     | 65.8             | 50.8             | 65.2      | 85.3      | 75.3     |
| National Average           | 2017   | 53.2   | 69.6        | 62.6  | 75.1       | 73.5        | 59.5  | N/A   | 50.1      | 59.7     | 66.7             | 52.0             | 65.4      | 85.6      | 75.4     |
| National Average           | 2018   | 54.2   | 70.4        | 63.4  | 75.7       | 74.6        | N/A   | 57.9  | 51.4      | 61.0     | 66.9             | 51.9             | 66.2      | 86.2      | 75.5     |





## Quality & Satisfaction VA Market Facility Trends – Access/Quality/Patient Satisfaction

| Measure   | Measure Unit          | Preferred Direction | 16Q3   | 17Q3   | 18Q3   | 18Q3 Media |
|---|-----------------------|---------------------|--------|--------|--------|------------|
| Acute care mortality  |                       |                     |        |        |        |            |
| Acute care Standardized Mortality Ratio (SMR)   | O/E                   | ↓                   | 0.483  | 0.650  | 0.695  | 0.822      |
| Acute care 30-day Standardized Mortality Ratio (SMR30)                                  | O/E                   | <b>V</b>            | 0.622  | 0.694  | 0.712  | 0.923      |
| a. AMI RSMR   | %                     | <b>4</b>            | 8.137  | 8.137  | 6.828  | 7.741      |
| b. CHF RSMR   | 96                    | <b>4</b>            | 6.311  | 6.311  | 7.149  | 6.843      |
| c. Pneumonia RSMR   | %                     | <b>4</b>            | 6.511  | 6.511  | 9.168  | 9.351      |
| d. COPD RSMR  | %                     | <b>4</b>            |        |        | 5.413  | 5.805      |
| e. Stroke RSMR  | 96                    | <b>4</b>            |        |        | 6.204  | 6.148      |
| Avoidable adverse events  |                       |                     |        |        |        |            |
| In-hospital complications   | O/E                   | <b>4</b>            | 0.809  | 0.996  | 1.134  | 0.838      |
| Healthcare associated infections (HAI)  |                       |                     |        |        |        |            |
| a. Catheter associated urinary tract infection  | inf/1k device days    | <b>+</b>            | 0.204  | 0.907  | 0.394  | 0.467      |
| b. Central line associated bloodstream infection  | inf/1k device days    | <b>.</b>            | 0.294  | 0.921  | 1.420  | 0.364      |
| c. Ventilator associated events (IVAC Plus)   | events/1k device days | <b>4</b>            | 6.057  | 0.000  | 0.000  | 0          |
| d. Methicillin-resistant Staphylococcus aureus (MRSA) infection                         | inf/1k bed days       | <b>+</b>            | 0.091  | 0.128  | 0.128  | 0.056      |
| e. C. difficile infection   | inf/10k bed days      | <b>+</b>            |        |        | 8.385  | 5.597      |
| 3. Patient safety indicator (PSI)   | O/E                   | <b>+</b>            | -0.802 | -0.468 | -0.180 | 0.36       |
| 4. Post acute care events   | O/E                   | <b>+</b>            |        |        | 0.348  | 0.924      |
| ength of Stay and Utilization Management  |                       |                     |        |        |        |            |
| 1. Adjusted length of stay  | days                  | Ψ                   | 4.479  | 4.510  | 4.595  | 4.324      |
| 2. Utilization management   |                       |                     |        |        |        |            |
| a. Admission reviews met, adjusted  | %                     | <b>↑</b>            | 64.291 | 67.848 | 69.885 | 76.042     |
| b. Continued stay reviews met, adjusted   | %                     | <b>1</b>            | 70.583 | 70.745 | 70.509 | 67.607     |
| are Transition  |                       |                     |        |        |        |            |
| Ambulatory Care Sensitive Condition hospitalizations                                    | hosp/1000 pts         | <b>+</b>            | 24.305 | 23.489 | 22.795 | 25.055     |
| 2. Hospital-wide 30-day readmission rate  | %                     | <b>+</b>            | 11.948 | 12.049 | 11.699 | 11.458     |
| a. Cardiorespiratory cohort   | 96                    | <b>+</b>            | 15.662 | 13.415 | 13.354 | 12.922     |
| b. Cardiovascular cohort  | %                     | į.                  | 10.353 | 11.331 | 10.301 | 10.095     |
| c. Medicinecohort   | 96                    | <u> </u>            | 13.303 | 12.969 | 13,461 | 12.825     |
| d. Neurology cohort   | 96                    | <u> </u>            | 10.845 | 9.769  | 6.782  | 8.987      |
| e. Surgical cohort  | %                     | <u> </u>            | 7.694  | 8.942  | 8.332  | 8.482      |
| 3. Disease specific 30-day readmission rate   |                       | ·                   |        |        |        |            |
| a. AMI RSRR   | 96                    | <b>4</b>            | 16.131 | 16.131 | 15.677 | 16.753     |
| b. CHF RSRR   | 96                    | <u> </u>            | 17.812 | 17.812 | 17.946 | 18.794     |
| c Pneumonia RSRR  | %                     | į.                  | 15.713 | 15.713 | 15.333 | 14.527     |
| d. COPD RSRR  | %                     | , i                 |        |        | 12.877 | 15.365     |
| e. Stroke RSRR  | %                     | , i                 |        |        | 10.613 | 10.046     |
| atient Experience   |                       | •                   |        |        |        | 22.240     |
| 1. Overall rating of hospital (inpatient)   | wct%                  | <b>^</b>            | 65.222 | 69.675 | 71.080 | 67.139     |
| 2. Overall rating of primary care providers   | wct%                  | ·                   | 71.704 | 74.571 | 74.838 | 70.75      |
| Overall rating of primary care providers     Overall rating of specialty care providers | wct%                  | <u> </u>            | 67.445 | 73.166 | 75.076 | 69.166     |
| Overa making of specialty care provides     Care Transition (inpatient)                 | wct%                  | <u> </u>            | 07.443 | .5.100 | 52.480 | 51.814     |
| 5. PCMH Stress Discussed (Q40)  | wct%                  | <u> </u>            |        |        | 60.921 | 59.113     |

9.3.V10.NortheastOhio.541 Source: SAIL Scorecards



### Quality & Satisfaction VA Market Facility Trends – Access/Quality/Patient Satisfaction, cont.

| Measure   | Measure Unit       | Preferred Direction | 16Q3   | 17Q3   | 18Q3   | 18Q3 Media |
|---|--------------------|---------------------|--------|--------|--------|------------|
| Employee Satisfaction   |                    |                     |        |        |        |            |
| 1. Best placesto work   | score (1-100)      | <b>↑</b>            | 66.757 | 72.257 | 72.982 | 65.152     |
| a. Overall job satisfaction   | score (1-5)        | <b>↑</b>            | 3.774  | 4.012  | 3.995  | 3.82       |
| b. Satisfaction with organization                                       | score (1-5)        | <b>↑</b>            | 3.645  | 3.862  | 3.884  | 3.616      |
| c. Recommend my organization as a good place to work                    | score (1-5)        | <b>↑</b>            | 3.931  | 3.979  | 4.060  | 3.833      |
| Registered nurse turnover rate  | %                  | <b>4</b>            | 3.227  | 2.442  | 4.133  | 5.163      |
| Performance measures  |                    |                     |        |        |        |            |
| Inpatient performance measures (ORYX)                                   | %                  | <b>↑</b>            | 90.521 | 78.451 | 75.201 | 83.07      |
| Outpatient performance measures (HED90_1)                               | wct %              | <b>↑</b>            |        |        | 90.190 | 88.767     |
| Outpatient performance measures (HED90_ec)                              | %                  | <b>↑</b>            |        |        | 78.293 | 78.367     |
| Access  |                    |                     |        |        |        |            |
| PCMH / Specialty Care Accessquestions                                   |                    |                     |        |        |        |            |
| a. PCMH timely appointment, care and information                        | wct %              | <b>↑</b>            | 60.711 | 53.665 | 55.594 | 53.032     |
| b. Specialty Caretimely appointment, care and information               | wct %              | <b>↑</b>            |        | 49.923 | 54.469 | 50.83      |
| c. Days Waited for Urgent Appointment (PCMH)                            | wct %              | <b>↑</b>            | 54.809 | 42.350 | 49.569 | 40.916     |
| c. Get an urgent care appointment as soon as needed (SC)                |                    |                     | 45.390 |        |        |            |
| d. Get a routine care appointment as soon as needed (SC)                |                    |                     | 51.028 |        |        |            |
| 2. Waittimes  |                    |                     |        |        |        |            |
| a. Primary care new patient wait time <= 30 days from create date       | %                  | <b>↑</b>            | 97.759 | 97.799 | 90.289 | 80.444     |
| b. Specialty care new patient wait time <= 30 days from create date     | %                  | <b>↑</b>            | 94.699 | 87.467 | 81.196 | 75.419     |
| c. Mental health care new patient wait time <= 30 days from create date | %                  | <b>↑</b>            | 99.487 | 97.903 | 95.058 | 92.311     |
| 3. Call center responsiveness   |                    |                     |        |        |        |            |
| a. Call center speed in responding to calls in seconds                  | seconds            | ↓                   | 41.669 | 31.070 | 34.477 | 50.698     |
| b. Call center abandonment rate   | %                  | <b>4</b>            | 6.580  | 3.042  | 2.603  | 6.704      |
| Mental Health   | Standardized score | <b>↑</b>            | 1.548  | 1.466  | 1.347  | 0.326      |
| 1. Population coverage  | Standardized score | <b>↑</b>            | 2.082  | 1.817  | 1.786  | -0.248     |
| 2. Continuity of care   | Standardized score | <b>↑</b>            | -0.469 | -0.348 | 1.413  | 0.855      |
| 3. Experience of care   | Standardized score | <b>1</b>            | 1.779  | 1.737  | -0.231 | 0.066      |
| fficiency and Capacity  |                    |                     |        |        |        |            |
| 1. Efficiency (1/SFA)   | Score (0-100)      | <b>↑</b>            | 91.439 | 93.688 | 93.787 | 94.096     |
| 2. Physician Capacity   | %                  | <b>+</b>            |        | 0.495  | 3.731  | 7.505      |

VAMC FY18 Star Rating: 5

| Cleveland VAMC Summary for all 3 Quarters          |                   |     |      |  |  |  |  |  |  |  |
|--|-------------------|-----|------|--|--|--|--|--|--|--|
| Above Highest Benchmark of 10th or 90th Percentile | Superior          | 37  | 25%  |  |  |  |  |  |  |  |
| Between Median and Favorable Percentile            | Good              | 63  | 42%  |  |  |  |  |  |  |  |
| Between Median and Unfavorable Percentile          | Acceptable        | 50  | 33%  |  |  |  |  |  |  |  |
| Below Lowest Benchmark of 10th or 90th Percentile  | Needs Improvement | 1   | 1%   |  |  |  |  |  |  |  |
| Total  |                   | 151 | 100% |  |  |  |  |  |  |  |

Note: Performance Measures cited above represent composite measures. Some measures have changed, but appear to be relatively close to current measures and therefore are reported for periods shown (PCMH Timely Appointments, Days Waited for Urgent Appointment).

**Source: SAIL Scorecards** 9.13.V10.NortheastOhio.541

# Quality & Satisfaction VA Patient Satisfaction – Outpatient (PCMH)

|                            |             |        | % Always          |               |              | % 9 or 10                  |                         |  |  |  |  |
|----------------------------|-------------|--------|-------------------|---------------|--------------|----------------------------|-------------------------|--|--|--|--|
| Facility                   | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of Provider | Overall<br>Satisfaction |  |  |  |  |
| (V10) (541) Cleveland-Ohio | 2015        | 43.2   | N/A               | 79.0          | 64.3         | 67.7                       | N/A                     |  |  |  |  |
| (V10) (541) Cleveland-Ohio | 2016        | 55.6   | 64.1              | 85.3          | 69.0         | 77.9                       | N/A                     |  |  |  |  |
| (V10) (541) Cleveland-Ohio | 2017        | 48.9   | 57.5              | 81.1          | 66.1         | 73.3                       | N/A                     |  |  |  |  |
| (V10) (541) Cleveland-Ohio | 2018        | 46.4   | 62.1              | 84.3          | 61.2         | 71.1                       | 82.1                    |  |  |  |  |
| (V10) (541BY) Canton       | 2015        | 39.0   | N/A               | 70.2          | 75.0         | 65.4                       | N/A                     |  |  |  |  |
| (V10) (541BY) Canton       | 2016        | 55.6   | 60.2              | 79.2          | 75.1         | 72.0                       | N/A                     |  |  |  |  |
| (V10) (541BY) Canton       | 2017        | 56.0   | 67.0              | 83.8          | 77.8         | 75.3                       | N/A                     |  |  |  |  |
| (V10) (541BY) Canton       | 2018        | 64.1   | 69.0              | 85.8          | 79.5         | 80.4                       | 90.9                    |  |  |  |  |
| (V10) (541BZ) Youngstown   | 2015        | 39.0   | N/A               | 78.7          | 74.3         | 73.2                       | N/A                     |  |  |  |  |
| (V10) (541BZ) Youngstown   | 2016        | 54.7   | 57.2              | 72.8          | 76.6         | 70.0                       | N/A                     |  |  |  |  |
| (V10) (541BZ) Youngstown   | 2017        | 54.7   | 59.4              | 78.3          | 80.5         | 73.3                       | N/A                     |  |  |  |  |
| (V10) (541BZ) Youngstown   | 2018        | 64.1   | 63.2              | 79.0          | 83.1         | 70.3                       | 86.0                    |  |  |  |  |
| (V10) (541GB) Lorain       | 2015        | 45.5   | N/A               | 79.9          | 74.2         | 74.6                       | N/A                     |  |  |  |  |
| (V10) (541GB) Lorain       | 2016        | 62.7   | 70.4              | 87.3          | 78.1         | 83.6                       | N/A                     |  |  |  |  |
| (V10) (541GB) Lorain       | 2017        | 60.5   | 68.1              | 81.7          | 70.8         | 79.6                       | N/A                     |  |  |  |  |
| (V10) (541GB) Lorain       | 2018        | 60.6   | 65.9              | 82.1          | 75.1         | 79.3                       | 84.8                    |  |  |  |  |
| (V10) (541GC) Sandusky     | 2015        | 34.7   | N/A               | 76.2          | 75.1         | 73.0                       | N/A                     |  |  |  |  |
| (V10) (541GC) Sandusky     | 2016        | 52.7   | 67.8              | 81.5          | 77.1         | 76.1                       | N/A                     |  |  |  |  |
| (V10) (541GC) Sandusky     | 2017        | 47.1   | 65.8              | 81.0          | 73.3         | 76.9                       | N/A                     |  |  |  |  |
| (V10) (541GC) Sandusky     | 2018        | 61.4   | 69.9              | 85.4          | 78.5         | 82.7                       | 90.5                    |  |  |  |  |



# Quality & Satisfaction VA Patient Satisfaction – Outpatient (PCMH), cont.

|                              |             |        | % 9 or 10         |               |              |                            |                         |
|------------------------------|-------------|--------|-------------------|---------------|--------------|----------------------------|-------------------------|
| Facility                     | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of Provider | Overall<br>Satisfaction |
| (V10) (541GD) Mansfield      | 2015        | 32.1   | N/A               | 72.0          | 76.0         | 65.4                       | N/A                     |
| (V10) (541GD) Mansfield      | 2016        | 53.9   | 66.0              | 82.2          | 85.1         | 78.6                       | N/A                     |
| (V10) (541GD) Mansfield      | 2017        | 51.6   | 65.9              | 80.6          | 81.1         | 78.0                       | N/A                     |
| (V10) (541GD) Mansfield      | 2018        | 54.8   | 67.1              | 84.7          | 86.0         | 81.6                       | 88.1                    |
| (V10) (541GE) McCafferty     | 2015        | 35.6   | N/A               | 63.0          | 66.1         | 57.3                       | N/A                     |
| (V10) (541GE) McCafferty     | 2016        | 56.2   | 58.7              | 74.3          | 76.9         | 63.9                       | N/A                     |
| (V10) (541GE) McCafferty     | 2017        | 63.9   | 66.3              | 81.3          | 84.3         | 77.2                       | N/A                     |
| (V10) (541GE) McCafferty     | 2018        | 70.0   | 66.4              | 81.1          | 83.0         | 72.5                       | 89.1                    |
| (V10) (541GF) Lake County    | 2015        | 52.9   | N/A               | 84.2          | 80.9         | 80.7                       | N/A                     |
| (V10) (541GF) Lake County    | 2016        | 62.9   | 68.4              | 82.0          | 79.5         | 77.3                       | N/A                     |
| (V10) (541GF) Lake County    | 2017        | 59.4   | 65.0              | 80.3          | 81.5         | 77.8                       | N/A                     |
| (V10) (541GF) Lake County    | 2018        | 60.5   | 70.3              | 84.3          | 82.6         | 82.2                       | 92.2                    |
| (V10) (541GG) Akron          | 2015        | 39.7   | N/A               | 70.2          | 69.2         | 66.9                       | N/A                     |
| (V10) (541GG) Akron          | 2016        | 58.0   | 60.1              | 80.2          | 76.0         | 72.9                       | N/A                     |
| (V10) (541GG) Akron          | 2017        | 56.0   | 58.3              | 77.5          | 71.9         | 72.9                       | N/A                     |
| (V10) (541GG) Akron          | 2018        | 56.2   | 60.1              | 77.0          | 71.7         | 69.8                       | 88.2                    |
| (V10) (541GH) East Liverpool | 2015        | 37.4   | N/A               | 79.1          | 84.7         | 80.0                       | N/A                     |
| (V10) (541GH) East Liverpool | 2016        | 57.2   | 63.7              | 81.0          | 86.5         | 80.3                       | N/A                     |
| (V10) (541GH) East Liverpool | 2017        | 55.0   | 64.3              | 79.7          | 85.4         | 71.1                       | N/A                     |
| (V10) (541GH) East Liverpool | 2018        | 50.7   | 63.5              | 81.9          | 82.0         | 74.1                       | 85.0                    |

# Quality & Satisfaction VA Patient Satisfaction – Outpatient (PCMH), cont.

|                                |             |        | % 9 or 10         |               |              |                               |                         |
|--------------------------------|-------------|--------|-------------------|---------------|--------------|-------------------------------|-------------------------|
| Facility                       | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of<br>Provider | Overall<br>Satisfaction |
| (V10) (541GI) Warren           | 2015        | 48.1   | N/A               | 87.3          | 73.6         | 85.3                          | N/A                     |
| (V10) (541GI) Warren           | 2016        | 64.1   | 65.9              | 81.0          | 69.2         | 78.6                          | N/A                     |
| (V10) (541GI) Warren           | 2017        | 55.3   | 59.4              | 78.4          | 69.8         | 72.0                          | N/A                     |
| (V10) (541GI) Warren           | 2018        | 59.5   | 65.4              | 82.1          | 64.7         | 79.9                          | 87.3                    |
| (V10) (541GJ) New Philadelphia | 2015        | 46.1   | N/A               | 75.3          | 82.3         | 72.9                          | N/A                     |
| (V10) (541GJ) New Philadelphia | 2016        | 58.5   | 69.1              | 82.3          | 80.3         | 74.5                          | N/A                     |
| (V10) (541GJ) New Philadelphia | 2017        | 45.3   | 60.8              | 78.0          | 76.8         | 66.4                          | N/A                     |
| (V10) (541GJ) New Philadelphia | 2018        | 62.8   | 69.1              | 81.4          | 82.7         | 75.2                          | 91.0                    |
| (V10) (541GK) Ravenna          | 2015        | 36.5   | N/A               | 87.5          | 62.8         | 83.2                          | N/A                     |
| (V10) (541GK) Ravenna          | 2016        | 51.6   | 67.3              | 84.3          | 63.0         | 78.0                          | N/A                     |
| (V10) (541GK) Ravenna          | 2017        | 53.8   | 63.7              | 82.6          | 74.4         | 78.3                          | N/A                     |
| (V10) (541GK) Ravenna          | 2018        | 47.6   | 64.0              | 84.7          | 74.1         | 75.4                          | 88.1                    |
| (V10) (541GL) Parma            | 2015        | 37.7   | N/A               | 72.9          | 69.1         | 68.3                          | N/A                     |
| (V10) (541GL) Parma            | 2016        | 40.2   | 58.3              | 72.2          | 71.8         | 65.3                          | N/A                     |
| (V10) (541GL) Parma            | 2017        | 49.7   | 60.7              | 78.4          | 81.4         | 72.5                          | N/A                     |
| (V10) (541GL) Parma            | 2018        | 62.2   | 65.9              | 84.5          | 83.5         | 76.7                          | 91.3                    |
| VISN 10 Average                | 2015        | 38.6   | N/A               | 71.6          | 67.9         | 66.4                          | N/A                     |
| VISN 10 Average                | 2016        | 51.3   | 59.7              | 76.8          | 72.0         | 69.7                          | N/A                     |
| VISN 10 Average                | 2017        | 50.8   | 60.3              | 76.9          | 73.1         | 71.1                          | N/A                     |
| VISN 10 Average                | 2018        | 52.4   | 60.9              | 78.4          | 73.1         | 70.9                          | 82.9                    |

Note: Green cells indicate a score at or above national average. Red cells indicate a score below national average.

**Source: VSSC Patient Experiences Survey Reports** 

# Quality & Satisfaction VA Patient Satisfaction – Outpatient (PCMH), cont.

|                  |             |        | % 9 or 10         |               |              |                               |                         |
|------------------|-------------|--------|-------------------|---------------|--------------|-------------------------------|-------------------------|
| Facility         | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of<br>Provider | Overall<br>Satisfaction |
| National Average | 2015        | 37.4   | N/A               | 70.9          | 66.2         | 65.2                          | N/A                     |
| National Average | 2016        | 49.2   | 58.4              | 75.6          | 69.1         | 68.1                          | N/A                     |
| National Average | 2017        | 49.8   | 58.7              | 75.8          | 70.0         | 68.9                          | N/A                     |
| National Average | 2018        | 51.3   | 60.1              | 77.1          | 71.0         | 69.7                          | 80.3                    |



# Quality & Satisfaction VA Patient Satisfaction – Outpatient (Specialty Care)

|                                  |             |        | % Always          |               |              | % 9 or                        | 10                      |
|----------------------------------|-------------|--------|-------------------|---------------|--------------|-------------------------------|-------------------------|
| Facility                         | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of<br>Provider | Overall<br>Satisfaction |
| (V10) (541) Cleveland            | 2016        | 48.9%  | 55.9%             | 73.8%         | 65.1%        | 68.3%                         | N/A                     |
| (V10) (541) Cleveland            | 2017        | 46.7%  | 58.3%             | 75.8%         | 64.1%        | 70.4%                         | N/A                     |
| (V10) (541) Cleveland            | 2018        | 50.2%  | 59.7%             | 76.1%         | 68.1%        | 70.4%                         | 85.0%                   |
| (V10) (541BY) Canton             | 2016        | 46.8%  | 59.6%             | 82.1%         | 78.9%        | 81.3%                         | N/A                     |
| (V10) (541BY) Canton             | 2017        | 59.5%  | 66.1%             | 81.1%         | 73.6%        | 76.0%                         | N/A                     |
| (V10) (541BY) Canton             | 2018        | 57.5%  | 60.5%             | 81.1%         | 79.1%        | 76.1%                         | 91.9%                   |
| (V10) (541BZ) Youngstown         | 2016        | 48.5%  | 56.9%             | 72.7%         | 80.1%        | 53.1%                         | N/A                     |
| (V10) (541BZ) Youngstown         | 2017        | 69.4%  | 62.0%             | 81.6%         | 77.8%        | 76.9%                         | N/A                     |
| (V10) (541BZ) Youngstown         | 2018        | 60.3%  | 59.0%             | 78.0%         | 84.4%        | 77.1%                         | 91.8%                   |
| (V10) (541GB) Lorain             | 2016        | 53.4%  | 62.6%             | 77.3%         | 70.4%        | 60.4%                         | N/A                     |
| (V10) (541GB) Lorain             | 2017        | 65.1%  | 74.4%             | 79.8%         | 84.3%        | 73.3%                         | N/A                     |
| (V10) (541GB) Lorain             | 2018        | 39.7%  | 69.7%             | 85.4%         | 85.0%        | 79.6%                         | 92.6%                   |
| (V10) (541GC) Sandusky           | 2016        | 48.0%  | 70.6%             | 84.5%         | 80.2%        | 74.0%                         | N/A                     |
| (V10) (541GC) Sandusky           | 2017        | 39.6%  | 57.9%             | 77.3%         | 75.3%        | 64.9%                         | N/A                     |
| (V10) (541GC) Sandusky           | 2018        | 60.8%  | 72.4%             | 93.0%         | 73.8%        | 88.7%                         | 97.9%                   |
| (V10) (541GD) Mansfield          | 2016        | 55.3%  | 51.7%             | 76.4%         | 88.4%        | 70.5%                         | N/A                     |
| (V10) (541GD) Mansfield          | 2017        | 74.4%  | 67.8%             | 85.2%         | 86.8%        | 82.6%                         | N/A                     |
| (V10) (541GD) Mansfield          | 2018        | 68.9%  | 70.6%             | 88.9%         | 83.4%        | 90.5%                         | 98.8%                   |
| (V10) (541GE) McCafferty-Clevela | 2016        | 39.6%  | 75.9%             | 38.9%         | 49.7%        | 38.9%                         | N/A                     |
| (V10) (541GE) McCafferty-Clevela | 2017        | 53.9%  | 75.9%             | 86.8%         | 80.2%        | 78.7%                         | N/A                     |

# Quality & Satisfaction VA Patient Satisfaction – Outpatient (Specialty Care), cont.

|                                  |             |        | % 9 or 10         |               |              |                               |                         |
|----------------------------------|-------------|--------|-------------------|---------------|--------------|-------------------------------|-------------------------|
| Facility                         | Survey Date | Access | Care Coordination | Communication | Office Staff | Overall Rating of<br>Provider | Overall<br>Satisfaction |
| (V10) (541GE) McCafferty-Clevela | 2018        | 75.5%  | 72.0%             | 93.4%         | 86.5%        | 93.9%                         | 94.7%                   |
| (V10) (541GF) Painesville        | 2016        | 65.6%  | 72.3%             | 79.9%         | 77.7%        | 73.3%                         | N/A                     |
| (V10) (541GF) Painesville        | 2017        | 37.8%  | 55.6%             | 78.0%         | 85.2%        | 82.5%                         | N/A                     |
| (V10) (541GF) Painesville        | 2018        | 100.0% | 50.0%             | 100.0%        | 100.0%       | 100.0%                        | 100.0%                  |
| (V10) (541GG) Akron              | 2016        | 40.9%  | 51.5%             | 73.1%         | 71.5%        | 67.4%                         | N/A                     |
| (V10) (541GG) Akron              | 2017        | 58.0%  | 60.4%             | 80.5%         | 80.6%        | 78.4%                         | N/A                     |
| (V10) (541GG) Akron              | 2018        | 48.7%  | 63.3%             | 83.5%         | 75.6%        | 79.8%                         | 90.1%                   |
| (V10) (541GH) East Liverpool-Cal | 2016        | 36.3%  | 50.7%             | 68.2%         | 73.1%        | 56.7%                         | N/A                     |
| (V10) (541GH) East Liverpool-Cal | 2017        | 91.7%  | 70.5%             | 90.5%         | 95.3%        | 69.8%                         | N/A                     |
| (V10) (541GH) East Liverpool-Cal | 2018        | 39.1%  | 50.9%             | 69.0%         | 81.6%        | 77.6%                         | 91.5%                   |
| (V10) (541GI) Warren             | 2016        | 42.1%  | 57.7%             | 72.1%         | 72.1%        | 64.9%                         | N/A                     |
| (V10) (541GI) Warren             | 2017        | 77.0%  | 68.3%             | 93.1%         | 83.8%        | 93.0%                         | N/A                     |
| (V10) (541GI) Warren             | 2018        | 52.3%  | 54.4%             | 83.8%         | 81.0%        | 82.4%                         | 93.0%                   |
| (V10) (541GJ) New Philadelphia   | 2016        | 68.2%  | 76.4%             | 90.7%         | 91.3%        | 87.0%                         | N/A                     |
| (V10) (541GJ) New Philadelphia   | 2017        | 39.2%  | 64.0%             | 80.4%         | 72.8%        | 72.3%                         | N/A                     |
| (V10) (541GJ) New Philadelphia   | 2018        | 41.1%  | 64.8%             | 78.4%         | 75.7%        | 81.4%                         | 95.7%                   |
| (V10) (541GK) Ravenna            | 2016        | 40.9%  | 60.7%             | 76.7%         | 64.4%        | 64.2%                         | N/A                     |
| (V10) (541GK) Ravenna            | 2017        | 31.4%  | 47.2%             | 82.2%         | 62.1%        | 82.2%                         | N/A                     |
| (V10) (541GK) Ravenna            | 2018        | 72.9%  | 78.6%             | 97.1%         | 86.4%        | 88.5%                         | 97.2%                   |
| (V10) (541GL) Parma              | 2016        | 40.0%  | 52.7%             | 74.8%         | 71.4%        | 67.7%                         | N/A                     |

Quality & Satisfaction 
VA Patient Satisfaction – Outpatient (Specialty Care), cont.

|                                  |             |                    | % 9 or 10 |               |              |                               |                         |
|----------------------------------|-------------|--------------------|-----------|---------------|--------------|-------------------------------|-------------------------|
| Facility                         | Survey Date | Survey Date Access |           | Communication | Office Staff | Overall Rating of<br>Provider | Overall<br>Satisfaction |
| (V10) (541GL) Parma              | 2017        | 55.4%              | 56.2%     | 75.1%         | 76.7%        | 69.2%                         | N/A                     |
| (V10) (541GL) Parma              | 2018        | 52.7%              | 63.8%     | 79.2%         | 74.3%        | 74.9%                         | 89.9%                   |
| (V10) (541GM) Cleveland-Superior | 2016        | 54.3%              | 49.8%     | 63.2%         | 67.9%        | 78.4%                         | N/A                     |
| (V10) (541GM) Cleveland-Superior | 2017        | 54.6%              | 50.8%     | 64.4%         | 74.2%        | 62.4%                         | N/A                     |
| (V10) (541GM) Cleveland-Superior | 2018        | 53.0%              | 66.1%     | 94.1%         | 76.3%        | 80.4%                         | 76.8%                   |
| (V10) (541GN) State Street-Paine | 2017        | 19.7%              | 54.7%     | 66.4%         | 58.3%        | 50.3%                         | N/A                     |
| (V10) (541GN) State Street-Paine | 2018        | 59.0%              | 66.4%     | 90.1%         | 78.5%        | 79.5%                         | 97.3%                   |
| VISN 10 Average                  | 2016        | 46.7%              | 54.8%     | 73.2%         | 71.0%        | 64.9%                         | N/A                     |
| VISN 10 Average                  | 2017        | 49.9%              | 57.5%     | 75.3%         | 72.4%        | 68.6%                         | N/A                     |
| VISN 10 Average                  | 2018        | 49.4%              | 58.8%     | 76.0%         | 73.3%        | 69.5%                         | 83.2%                   |
| National Average                 | 2016        | 47.3%              | 55.1%     | 73.2%         | 69.1%        | 65.4%                         | N/A                     |
| National Average                 | 2017        | 48.7%              | 56.2%     | 74.2%         | 70.4%        | 66.8%                         | N/A                     |
| National Average                 | 2018        | 49.7%              | 57.1%     | 75.3%         | 71.7%        | 68.4%                         | 81.0%                   |



# Quality & Satisfaction VA Patient Satisfaction – Community Care

|                            |        | % 9 or 10 |                  |          |                  | % Alwa   | ys                   |           |               |                 | % Strong          | ly Agree    | % Very Satisfied or Satisfied |
|----------------------------|--------|-----------|------------------|----------|------------------|----------|----------------------|-----------|---------------|-----------------|-------------------|-------------|-------------------------------|
| Facility                   | Survey | Provider  | Community        | Commu-   | Provider         | Provider | VA                   | Next Step | Test          | Test            | First Appt.       | First Appt. | Overall                       |
|                            | Date   | Rating    | Care<br>Received | nication | Aware<br>History | Informed | Provider<br>Informed | Clear     | Follow-<br>up | Result to<br>VA | Soon as<br>Needed | Easy to Get | Satisfaction                  |
| (V10) (541) Cleveland-Ohio | 2016   | 70.9      | 68.0             | 71.7     | 57.3             | 62.2     | 63.4                 | 59.9      | 65.2          | 78.4            | 78.5              | 79.0        | 84.3                          |
| (V10) (541) Cleveland-Ohio | 2017   | 74.0      | 67.1             | 73.2     | 63.7             | 60.1     | 60.0                 | 55.3      | 59.6          | 70.9            | 74.3              | 81.7        | 83.7                          |
| (V10) (541) Cleveland-Ohio | 2018   | 71.5      | 66.6             | 71.7     | 54.7             | 53.5     | 55.5                 | 54.4      | 62.0          | 77.9            | 73.9              | 76.4        | 82.2                          |
| VISN 10 Average            | 2016   | 65.8      | 58.1             | 67.0     | 54.2             | 52.3     | 51.3                 | 51.4      | 59.5          | 61.3            | 68.4              | 68.7        | 77.4                          |
| VISN 10 Average            | 2017   | 66.4      | 59.4             | 67.5     | 53.0             | 48.3     | 47.1                 | 48.3      | 56.8          | 63.6            | 62.5              | 62.6        | 76.1                          |
| VISN 10 Average            | 2018   | 66.5      | 58.6             | 68.4     | 51.6             | 47.0     | 46.3                 | 48.3      | 52.5          | 69.2            | 64.6              | 65.7        | 79.9                          |
| National Average           | 2016   | 58.8      | 50.4             | 63.7     | 47.0             | 42.2     | 41.0                 | 42.7      | 51.6          | 59.6            | 59.9              | 59.8        | 71.7                          |
| National Average           | 2017   | 62.1      | 54.2             | 66.4     | 49.2             | 44.5     | 43.7                 | 45.2      | 53.4          | 60.6            | 62.1              | 62.2        | 74.0                          |
| National Average           | 2018   | 64.5      | 55.3             | 68.0     | 51.0             | 45.7     | 44.8                 | 47.0      | 54.9          | 62.5            | 66.0              | 66.1        | 76.9                          |



# Quality & Satisfaction Quality of Community Hospitals – Cleveland-Ohio Area

|   | UHHS MEMORIAL<br>HOSPITAL OF<br>GENEVA | SOUTHWEST<br>GENERAL HEALTH<br>CENTER | FAIRVIEW HOSPITAL | CLEVELAND CLINIC | MERCY HEALTH-<br>LORAIN HOSPITAL | EUCLID HOSPITAL | HILLCREST HOSPITAL | CLEVELAND CLINIC<br>AVON HOSPITAL | LUTHERAN HOSPITAL | UNIVERSITY<br>HOSPITALS AHUJA<br>MEDICAL CENTER |
|---|--|---------------------------------------|-------------------|------------------|----------------------------------|-----------------|--------------------|-----------------------------------|-------------------|---|
| Quality Rank for Overall Quality                                | 1                                      |                                       | 3                 | 4                |                                  |                 | 7                  | 8                                 | 9                 | 10  |
| Hospital Type   | CAH                                    | Acute                                 | Acute             | Acute            | Acute                            | Acute           | Acute              | Acute                             | Acute             | Acute   |
| ACS - Trauma Center   | No                                     | LevelIII                              | Level II          | No               | No                               | No              | LevelII            | No                                | No                | No  |
| Academic Medical Center   | No                                     | No                                    | No.               | Yes              | No                               | No              | No.                | No                                | No                | No  |
| Quality Rank in the U.S. for Overall<br>Quality                 | Best 20%                               | Best 20%                              | Best 20%          | Best 20%         | Best 20%                         | Best 20%        | Best 20%           | Best 20%                          | Best 20%          | Best 20%  |
| CMS Hospital Star Rating  | 5                                      | 5                                     | . 4               | 5                | 4                                | 4               | 5                  | 4                                 | . 5               | 4   |
| Truven Everest Award  | No                                     | No                                    | No.               | No               | No                               | No              | No No              | No                                | No                | No  |
| Truven 100 Top Hospitals  | No                                     | No                                    | No.               | No               | No                               | No              | No.                | No                                | No                | No  |
| Leapfrog Top Hospitals  | No                                     | No                                    | No No             | No               | No                               | No              | No No              | No                                | No                | No  |
| US News & World Report Top Hospitals                            | No                                     | No                                    | No.               | Yes              | No                               | No              | No.                | No                                | No.               | No  |
| Patients who gave their hospital a rating of 9 or 10 on a scale | 87.0%                                  | 79.0%                                 |                   | 82.0%            | 68.0%                            | 74.0%           |                    | 84.0%                             |                   | 74.0%   |
| Estimated Inpatient Surgeries                                   | 190                                    | 4,324                                 | 4,469             | 23,452           | 1,534                            | 2,158           | 6,714              | 1,177                             | 1,451             | 3,452   |
| Estimated Outpatient Surgeries                                  | 1,412                                  | 12,673                                | 11,766            | 67,586           | 4,689                            | 2,559           | 11,726             | 5,397                             | 3,034             | 11,931  |
| ED Visits   | 14,752                                 | 59,153                                | 85,188            | 129,531          | 46,791                           | 38,909          | 64,892             | 41,515                            | 29,683            | 46,921  |
| Mortality Rate (AMI)  | 0.0%                                   | 12.8%                                 | 11.5%             | 10.2%            | 10.1%                            | 0.09            | 11.7%              | 0.0%                              | 0.0%              | 11.3%   |
| Morta lity Rate (CHF)   | 10.0%                                  | 8.6%                                  | 6.7%              | 6.8%             | 9.2%                             | 12.1%           | 8.4%               | 9.6%                              | 10.0%             | 8.6%  |
| Morta lity Rate (Pneumonia)                                     | 10.4%                                  | 12.0%                                 | 12.4%             | 12.5%            | 14.5%                            | 13.29           | 12.1%              | 13.0%                             | 14.6%             | 12.3%   |
| Mortality Rate (COPD)   | 7.6%                                   | 6.3%                                  | 6.2%              | 7.1%             | 8.8%                             | 7.5%            | 6.0%               | 8.5%                              | 7.3%              | 7.2%  |
| ATI Cause Hospital-Wide Readmission<br>Rate                     | 15.5%                                  | 13.8%                                 | 16.3%             | 16.0%            | 15.4%                            | 14.4%           | 15.6%              | 15.6%                             | 15.4%             | 15.6%   |
| Readmission Rate (AMI)  | 0.0%                                   | 12.8%                                 | 11.5%             | 10.2%            | 10.1%                            | 0.0%            | 11.7%              | 0.0%                              | 0.0%              | 11.3%   |
| Readmission Rate (CHF)  | 10.0%                                  | 8.6%                                  | 6.7%              | 6.8%             | 9.2%                             | 12.1%           | 8.4%               | 9.6%                              | 10.0%             | 8.6%  |
| Readmission Rate (Pneumonia)                                    | 10.4%                                  | 12.0%                                 | 12.4%             | 12.5%            | 14.5%                            | 13.2%           | 12.1%              | 13.0%                             | 14.6%             | 12.3%   |
| Readmission Rate (COPD)   | 7.6%                                   | 6.3%                                  | 6.2%              | 7.1%             | 8.8%                             | 7.5%            | 6.0%               | 8.5%                              | 7.3%              | 7.2%  |

Note: Data is reported by provider number and may includes multi-campus hospitals reporting under a single provider number, N/A = Not Applicable

**VA Market Area Health Systems Optimization** 

## Quality & Satisfaction Awards and Recognition of Top Five Largest Community Hospitals\* – Cleveland-Ohio Area

| Commercial<br>Hospital<br>Name                         | Cleveland Clinic   | University Hospitals Cleveland<br>Medical Center  | Summa Health System –<br>Akron Campus   | MetroHealth Medical Center  | Cleveland Clinic<br>Fairview Hospital   |
|--|--|---|---|---|---|
| Location  High Performing Ranked Specialties/ Programs | Cleveland, OH  Cancer Cardiology & Heart Surgery Diabetes & Endocrinology Ear, Nose & Throat Gastroenterology & GI Surgery Geriatrics Gynecology Nephrology Neurology & Neurosurgery Orthopedics Pulmonology Pulmonology Reumatology Urology Urology Urology   | Cleveland, OH  Cancer Cardiology & Heart Surgery Geriatrics Diabetes & Endocrinology Ear, Nose & Throat Gastroenterology & GI Surgery Gynecology Nephrology Neurology & Neurosurgery Orthopedics Pulmonology & Lung Surgery   | Akron, OH  Gastroenterology & GI Surgery  Nephrology Pulmonology & Lung Surgery   | Cleveland, OH  Pulmonology & Lung Surgery Urology   | Cleveland, OH  Cancer Cardiology & Heart Surgery Diabetes & Endocrinology Ear, Nose & Throat Gastroenterology & GI Surgery Geriatrics Gynecology Nephrology Nephrology Neurology & Neurosurgery Pulmonology & Lung Surgery Orthopedics Urology  |
| High<br>Performing<br>Procedures/<br>Conditions        | Abdominal Aortic Aneurysm Repair     Aortic Value Surgery     COPD     COlon Cancer Surgery     Heart Bypass Surgery     Heart Failure     Joint Replacement (Hip and Knee)     Lung Cancer Surgery  | Abdominal Aortic Aneurysm Repair Aortic Value Surgery COPD Colon Cancer Surgery Heart Failure Joint Replacement (Hip and Knee) Lung Cancer Surgery  | COPD     Heart Failure  | COPD     Heart Failure  | Aortic Value Surgery     COPD     Colon Cancer Surgery     Heart Bypass Surgery     Heart Failure   |
| Notable<br>Awards                                      | ■ U.S. News & World Report: Regionally Ranked Hospital #1 in Ohio, #1 in Cleveland area, #2 Best Hospitals Honor Roll.  The Leapfrog Group: Hospital Safety Grade "A" (2019)  Becker's Hospital Review: Top 100 Hospitals (2019, 2018)  American Nurses Credentialing Center (ANCC): Magnet Designation (2018)  Healthgrades: America's 250 Best Hospitals (2012, 2018, 2017), America's 50 Best Hospitals for Cardiac Surgery Award (2019, 2018, 2017), America's 100 Best Hospitals for Cardiac Card America's 100 Best Hospitals 1sor Cardiac Cardiac Card Award (2019, 2018, 2017) | U.S. News & World Report: Regionally Ranked Hospital #2 in Ohio, #2 in Cleveland area, Recognized in Glaciated Plateau Becker's Hospital Review: Top 100 Hospitals(2019, 2018) Healthgrades: America's 100 Best Hospitals(2019), America's 250 Best Hospitals(2019), America's 250 Best Hospitals(2019), America's 250 Test Nospitals(2019), America's 250 Test N | U.S. News & World Report: Regionally Ranked Hospital #18 in Ohio, Recognized in Glaciated Plateau Healthgrades: America's 250 Best Hospitals (2019, 2018) | ■ U.S. News & World Report: Regionally<br>Ranked Hospital #18 in Ohio, #6 in<br>Cleveland, Recognized in Glaciated<br>Plateau | U.S. News & World Report: Regionally Ranked Hospital #5 in Ohio, #3 in Cleveland, Recognized in Glaciated Plateau Becker's Hospital Review: Top 100 Hospitals (2018) American College of Surgeons' Commission on Cancer: Outstanding Achievement Award (2017) American Heart Association/American Stroke Association: Gold Plus Quality Achievement Award and Target: Stroke Honor Roll Elitle Plus (2018) American Nurses Credentialing Center (ANCC): Magnet Designation (2019) |

<sup>\*</sup>As measured by total staffed beds. Excludes rehabilitation, psychiatric, and long term care facilities.

Note: N/A for High Performing Ranked Specialties/Programs and High Performing Procedures/Conditions indicates the hospital did not meet criteria or volume thresholds set by US News and World Report to be eligible for a rating/ranking. N/A in for Notable Awards indicate the hospital did not list any care or service delivery awards website. Reflects information that was available as of July 29th, 2019.

## VISN 10: Northeast Ohio Market

## Quality & Satisfaction

# Quality of Top Community Hospital Outpatient Services

## Hospital Outpatient Quality Reporting Program Overview

- The Hospital Outpatient Quality Reporting Program (Hospital OQR) is a pay for quality data reporting program implemented by the Centers for Medicare & Medicaid Services (CMS) for outpatient hospital services
- ✓ Mandated by the Tax Relief and Health Care Act of 2006 by the Centers for Medicare & Medicaid Services to promote higher quality and more efficient health care for Medicare beneficiaries through measurement
- Subsection (d) hospitals that meet Hospital OQR Program requirements during a given calendar year receive a full OPPS payment update, also called the Outpatient Department (OPD) fee schedule increase factor, for the upcoming calendar year
- Eligible hospitals that do not participate or participate but fail to meet program requirements receive a two percentage point reduction of their annual payment update (APU) for the applicable payment year
- Hospitals must submit data for 26 quality measures:
- ✓ 5 Cardiac Care Measures
- ✓ 3 ED-Throughput Measures
- ✓ 1 Pain Management Measures
- √ 6 Imaging Efficiency Measures
- ✓ 1 Stroke Measures
- ✓ 9 Submitted Via a Web-Based Tool Measures
- ✓ 1 Outcome Claims-Based Measures
- ✓ Commercial Market Data & Analysis

For more information, including measure specifications and minimum case count requirements, see CMS.gov

Source: CMS.gov 9.8.V10.NortheastOhio



## **VISN 10: Northeast Ohio Market**

## Quality & Satisfaction Quality of Top Community Hospital Outpatient Services, cont.

•In order to better compare outpatient quality between hospitals, the 21 outpatient quality measure were grouped into broader categories

•National outpatient data was also grouped following the same methodology and used as a benchmark comparison

|  | Hospital Outpatient Qu   | ality Reporting Groupings |  |
|--|--|---------------------------|--|
| Acute Myocardial Infarction /            | OP-2: Fibrinolytic Therapy Received Within 30 Minutes of ED arrival (%) OP-3: Median Time to Transfer to Another Facility for Acute Coronary Intervention (mins) | ED - Throughput           | OP-18: Median Time from ED Arrival to ED Departure for Discharged ED Patients (mins) OP-22: Left Without Being Seen (%)  |
| Chest Pain Measure Score                 | OP-5: Median Time to ECG (mins   | ED - Volume*              | • EDV - Emergency Department Volume  |
|  |  |                           | Control of the contro |
|  | OP-12: The Ability for Providers with HIT to Receive Laboratory Data Electronically  |                           | OP-8: MRI Lumbar Spine for Low Back Pain (%)   |
|  | Directly into their ONC-Certified EHR System as Discrete Searchable Data (Y/N)   |                           | OP-9: Mammography Follow-up Rates (%)  |
|  | OP-17: Tracking Clinical Results between Visits (Y/N)  |                           | OP-10: Abdomen CT-Use of Contrast Material (%)   |
| Structural                               | OP-29: Appropriate Follow-up Interval for Normal Colonoscopy in Average Risk Patients  | Imaging Efficiency        | OP-11: Thorax CT-Use of Contrast Material (%)  |
| (Submitted Via a                         | (%)  |                           | OP-13: Cardiac Imaging for Preoperative Risk Assessment for Non-Cardiac Low Risk Surgery (%)   |
| Web-based Tool)                          | OP-30: Colonoscopy Interval for Patients with a History of Adenomatous Polyps –  |                           | OP-14: Simultaneous Use of Brain Computed Tomography (CT) and Sinus Computed   |
|  | Avoidance of Inappropriate Use (%)   |                           | Tomography (CT) (%)  |
|  | OP-31: Cataracts – Improvement in Patient's Visual Function within 90 days Following   |                           |  |
|  | Cataract Surgery (survey)  |                           |  |
|  | OP-33 Facility 7-Day Risk-Standardized Hospital Visit Rate after Outpatient Colonoscopy  |                           |  |
|  | OP-32 Facility 7-Day Risk-Standardized Hospital Visit Rate after Outpatient Colonoscopy  |                           | OP-23: Head CT or MRI Scan Results for Acute Ischemic Stroke or Hemorrhagic Stroke Patients  |
| Outcome Claims-Based                     | OP-35: Admissions and Emergency Department (ED) Visits for Patients Receiving Outpatient<br>Chemotherapy**   | Stroke                    | who Received Head CT or MRI Scan Interpretation Within 45 minutes of ED Arrival (%)  |
|  | OP-36: Hospital Visits after Hospital Outpatient Surgery**   |                           |  |
| This are harded a subjective in making a | nd is only meant to provide a directional opinion as to the current state of VA and non-VA providers   | to the product            |  |

This analysis is subjective in nature and is only meant to provide a directional opinion as to the current state of VA and non-VA providers in the market.

Source: CMS.gov 9.9.V10.NortheastOhio

<sup>\*</sup>ED volume (EDV) is not a Hospital OQR measure, but OP-18 and OP-22 national data are based on ED volumes.

<sup>\*\*</sup>The first reporting period for OP-35 and -36 began January 1, 2018 and goes through December 31, 2018, for the CY 2020 payment determination. Data for these 2 measures have not made available by CMS and are not included in this analysis.



## 

| Outpatient<br>Quality Category                  | Measure Name  | Preferred Direction | Cleveland Clinic Main<br>Campus          | UH Cleveland Medical<br>Center           | Summa Health System - Akron Campus       | MetroHealth<br>Medical Center            | Fairview Hospital                        | National Ra |
|---|---|---------------------|--|--|--|--|--|-------------|
| AMI / Chest Pain                                | OP-2: Fibrinolytic Therapy Received Within 30 Minutes of ED arrival (%)   | High                | N/A                                      | N/A                                      | N/A                                      | N/A                                      | N/A                                      | 59.0%       |
|   | OP-3: Median Time to Transfer to Another Facility for Acute Coronary Intervention (mins)                              | Low                 | 50                                       | N/A                                      | N/A                                      | N/A                                      | N/A                                      | 62          |
|   | OP-5: Median Time to ECG (mins)   | Low                 | 3  | 8  | 16                                       | 8  | N/A                                      | 8           |
| tructural<br>Submitted Via a<br>Veb-Based Tool) | OP-12: Receive Laboratory Data Electronically Directly as Discrete Searchable Data (Y/N)                              | Yes                 | Yes                                      | Yes                                      | Yes                                      | Yes                                      | Yes                                      | N/A         |
|   | OP-17: Tracking Clinical Results between Visits (Y/N)   | Yes                 | Yes                                      | Yes                                      | Yes                                      | Yes                                      | Yes                                      | N/A         |
|   | OP-29: Appropriate Follow-up Interval for Normal Colonoscopy in Average Risk Patients (%)                             | High                | 95.0%                                    | 100.0%                                   | 87.0%                                    | 100.0%                                   | N/A                                      | 88.0%       |
|   | OP-30: Colonoscopy Interval for Patients with a History of Adenomatous Polyps ?<br>Avoidance of Inappropriate Use (%) | High                | 99.0%                                    | 97.0%                                    | 72.0%                                    | 97.0%                                    | 100.0%                                   | 90.0%       |
|   | OP-31: Cataracts ? Improvement in Patient?s Visual Function within 90 days Following Cataract Surgery (survey)        | High                | N/A                                      | N/A                                      | N/A                                      | N/A                                      | N/A                                      | 95          |
|   | OP-33: External Beam Radiotherapy for Bone Metastases (%)   | High                | 95.0%                                    | 97.0%                                    | 100.0%                                   | 91.0%                                    | 95.0%                                    | 86.0%       |
| itcome Claims-<br>sed                           | OP-32: Facility 7-Day Risk-Standardized Hospital Visit Rate after Outpatient Colonoscopy                              | Low                 | 14.1%                                    | 15.1%                                    | 14.1%                                    | 15.9%                                    | N/A                                      | 14.8%       |
| – Throughput                                    | OP-18: Median Time from ED Arrival to ED Departure for Discharged ED Patients (mins)                                  | Low                 | 143                                      | 197                                      | 157                                      | 160                                      | 172                                      | 137         |
|   | OP-22: Left Without Being Seen (%)  | Low                 | 2.0%                                     | 2.0%                                     | 2.0%                                     | 1.0%                                     | 2.0%                                     | 2.0%        |
|   | EDV: Emergency Department Volume  | N/A                 | Very High (60,000+<br>patients annually) | N/A         |
| aging<br>iciency                                | OP-8: MRI Lumbar Spine for Low Back Pain (%)  | Low                 | 33.3%                                    | 39.7%                                    | 38.2%                                    | 38.0%                                    | 42.9%                                    | 39.3%       |
|   | OP-9: Mammography Follow-up Rates (%)   | Low                 | 10.0%                                    | 7.9%                                     | 5.5%                                     | 8.8%                                     | 12.7%                                    | 8.9%        |
|   | OP-10: Abdomen CT-Use of Contrast Material (%)  | Low                 | 5.6%                                     | 4.6%                                     | 4.2%                                     | 6.1%                                     | 3.0%                                     | 7.8%        |
|   | OP-11: Thorax CT-Use of Contrast Material (%)   | Low                 | 0.1%                                     | 0.1%                                     | 0.0%                                     | 3.3%                                     | 0.0%                                     | 1.5%        |
|   | OP-13: Cardiac Imaging for Preoperative Risk Assessment for Non Cardiac Low Risk Surgery (%)                          | Low                 | 4.7%                                     | 5.6%                                     | 3.5%                                     | 4.3%                                     | 3.3%                                     | 4.6%        |
|   | OP-14: Simultaneous Use of Brain Computed Tomography (CT) and Sinus Computed Tomography (CT) (%)                      | Low                 | 0.6%                                     | 2.0%                                     | 0.6%                                     | 1.7%                                     | 0.8%                                     | 1.1%        |
|   | OP-23: Head CT or MRI Scan Results Within 45 minutes of ED Arrival (%)  | High                | 61.0%                                    | N/A                                      | N/A                                      | N/A                                      | N/A                                      | 73.0%       |

Source: 2017 CMS.gov 9.10.V10.NortheastOhio.541

<sup>\*</sup>As measured by total staffed beds \*\*A rate of 8% - 14% is typically ideal for mammography follow-up rates N/A = Not available/reported Green: at/above National Rate



## Quality & Satisfaction

# Outpatient Procedure Volumes of Top Five Largest Community Hospitals\* – Cleveland-Ohio Area

| Outpatient Quality Category | Procedure Type   | Cleveland Clinic Main | UH Cleveland Medical | Summa Health System - Akron | MetroHealth Medical | Fairview Hospital |
|-----------------------------|------------------|-----------------------|----------------------|-----------------------------|---------------------|-------------------|
|                             |                  | Campus                | Center               | Campus                      | Center              |                   |
|                             | Gastrointestinal | 50,117                | 12,726               | 1,291                       | 10,395              | 1,643             |
|                             | Eye              | 12,878                | 2,438                | 435                         | 2,406               | 329               |
|                             | Nervous System   | 2,772                 | 581                  | 32                          | 268                 | 244               |
| OP Surgical Procedure       | Musculoskeletal  | 5,665                 | 1,261                | 306                         | 1,353               | 573               |
| Volume                      |                  |                       |                      |                             |                     |                   |
|                             | Skin             | 60,472                | 1,986                | 375                         | 39,979              | 1,028             |
|                             | Genitourinary    | 18,430                | 2,730                | 2,238                       | 3,166               | 1,586             |
|                             | Cardiovascular   | 10,701                | 1,758                | 140                         | 1,639               | 979               |
|                             | Respiratory      | 22,135                | 3,654                | 17                          | 3,735               | 215               |
|                             | Other            | 1,480                 | 1,019                | 60                          | 327                 | 228               |
|                             | Total            | 184,650               | 28,153               | 4,894                       | 63,268              | 6,825             |

• Most hospital outpatient procedures (99%) fall into one of eight categories: Cardiovascular, Eye, Gastrointestinal, Genitourinary, Musculoskeletal, Nervous System, Skin, and Other (CMS.gov; green: at/above National Rate)

• Research has suggested higher procedure volumes are associated with lower costs and better quality (Advisory Board).

N/A = Not available/reported

\*As measured by total staffed beds

Source: 2017 CMS.gov 9.11.V10.NortheastOhio.541



# **Facilities**

## Facilities Inpatient Campus Snapshot

## Facility Name: Cleveland-Ohio

Facility Complexity Level (2017): High-1A FY18 Core Facility Uniques (VAMC only): 76,413



| REAL PROPERTY OVERVIEW                               |   |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|
| Acres available                                      | 0   |  |  |  |  |  |  |  |
| Main Patient Care Facility Construction Date         | 1964  |  |  |  |  |  |  |  |
| Most Recent Renovation Date (Main Hospital Building) | 1989  |  |  |  |  |  |  |  |
| BGSF (campus total)                                  | 1,383,853 sq. ft  |  |  |  |  |  |  |  |
| DGSF (direct patient care)                           | 717,819 sq. ft 52.0% of BGSF                                |  |  |  |  |  |  |  |
| Property Size  | 18 acres 0 acres available**                                |  |  |  |  |  |  |  |
| Annual Operations and Maintenance Cost               | \$15,637,539  |  |  |  |  |  |  |  |
| Total 10-Year Capital Investment*                    | \$185,703,278   |  |  |  |  |  |  |  |
| Facilities Conditions Assessment Deficiencies        | \$47,218,328 \$618/Unique                                   |  |  |  |  |  |  |  |
| Seismic Risk   | Low Risk  |  |  |  |  |  |  |  |
| Operational Leases                                   | 22 Leases \$27,615,259 total annual cost 493,592 total NUSF |  |  |  |  |  |  |  |

<sup>\*</sup> Sum of Major and Minor Con. and NRM spending

Source: CAI Buildings and FCA Condition Gaps Reports 9-7-2019, and CAPRES CEOSH Report 1-29-2019

<sup>\*\*</sup> Provides an indication of any excess or surplus land, not currently in use and with no plans for future expansion needs that could be used for future development.



## **Facilities**



## **Inpatient Campus and Outpatient Care Locations**

## Inpatient Campus:

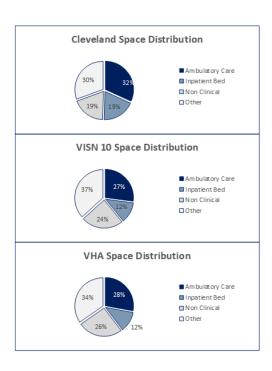
| Facility Data - Cleveland |                       |                         |                         |  |  |  |  |  |  |  |
|---------------------------|-----------------------|-------------------------|-------------------------|--|--|--|--|--|--|--|
|                           | teported by Field)    |                         |                         |  |  |  |  |  |  |  |
| Building Gross Sq. Ft.    | Maintenance Cost (per |                         |                         |  |  |  |  |  |  |  |
| (campus total)            | sq. ft.)              | Acute Beds <sup>1</sup> | Other Beds <sup>2</sup> |  |  |  |  |  |  |  |
| 1,383,853                 | \$11.30               | 199                     | 402                     |  |  |  |  |  |  |  |

## Outpatient Care Locations:

| Facility Name <sup>3</sup>   | Ambulatory Care SF |
|--|--------------------|
| Louis Stokes Cleveland Department of Veterans Affairs Medical Center | 367,181            |
| Parma CBOC   | 45,916             |
| Lake County (Painesville), OH CBOC                                   | 20,595             |
| Lorain CBOC  | 17,362             |
| David F. Winder VA Clinic  | 16,936             |
| Canton CBOC  | 15,454             |
| Akron CBOC   | 13,210             |
| Sandusky, OH CBOC  | 11,772             |
| Youngstown CBOC  | 11,689             |
| Cleveland Ambulatory Surgery   | 10,000             |
| Cleveland Dialysis   | 9,995              |
| New Philadelphia CBOC  | 8,235              |
| Cleveland Community Resource Referral Center                         | 7,744              |
| Cleveland Admin - EUL  | 6,547              |
| Akron Community Resource Referral Center                             | 6,425              |
| Warren CBOC  | 5,933              |
| Ravenna OH CBOC  | 5,488              |
| East Liverpool/Calcutta CBOC   | 4,842              |
| Akron Rehab Clinic   | 4,800              |
| Cleveland (McCafferty) CBOC  | 4,353              |
| Canton CBOC Modular Trailer  | 2,547              |

## Facility **Metrics:**

|                                   | Cleveland    | VISN Average | VHA Average   |
|-----------------------------------|--------------|--------------|---------------|
| Campus SF                         | 1,383,853    | 967,393      | 828,121       |
| Core Facility Uniques             | 76,413       | 40,042       | 36,243        |
| Campus SF/Core Facility Uniques   | 18           | 24           | 23            |
| Current FCA Backlog               | \$47,218,328 | \$75,768,821 | \$123,141,990 |
| FCA Backlog/Core Facility Uniques | \$618        | \$1,892      | \$3,398       |



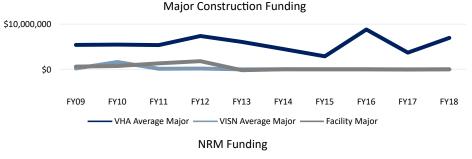
<sup>1.</sup> Includes Acute Psych, Medicine, and Surgical Beds

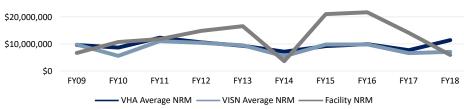
<sup>2.</sup> Includes Spinal Cord, Blind Rehab, CLC, DRRTP, and Intermediate Beds

<sup>3.</sup> Only reflects SF related to VA owned and leased fixed facilities

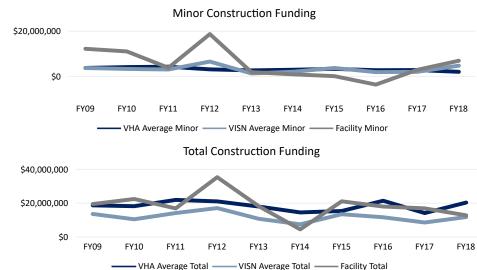


# Facilities Investment – Cleveland-Ohio



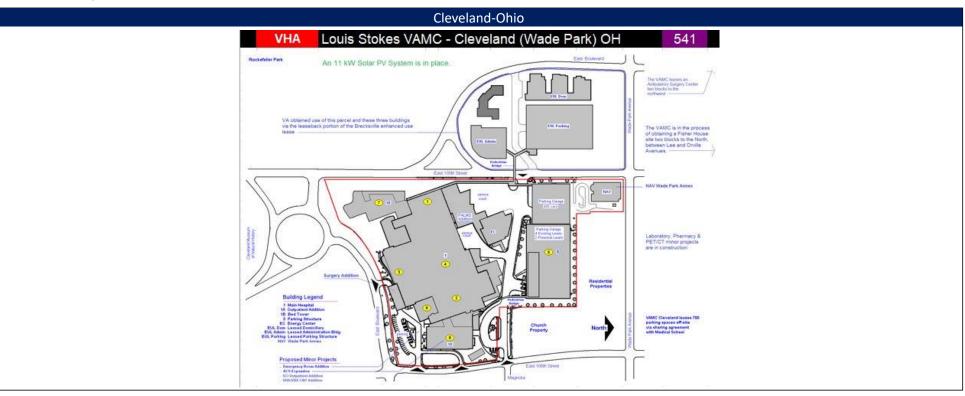


|                                   | Facility      | VISN Average  | VHA Average   |
|-----------------------------------|---------------|---------------|---------------|
| FCA Backlog/SF**                  | \$34          | \$86          | \$139         |
| Current FCA Backlog               | \$47,218,328  | \$75,768,821  | \$123,886,618 |
| Investment/SF**                   | \$134         | \$123         | \$155         |
| Total 10-Year Capital Investment* | \$185,703,278 | \$119,117,944 | \$137,521,745 |
| Owned SF                          | 1,383,853     | 968,419       | 886,486       |



<sup>\*</sup>Sum of Major and Minor Con. and NRM spending \*\*Total 10-Year Capital Investment and Current FCA Backlog Divided by Owned SF

## Facilities Site Plan





# Facilities **Building Inventory (Owned)**

|   | Cleveland-Ohio |       |           |            |           |          |         |        |               |                 |                       |            |  |
|---|----------------|-------|-----------|------------|-----------|----------|---------|--------|---------------|-----------------|-----------------------|------------|--|
| Function Title                          | Current Use    | Year  | Building  | Outpatient | Inpatient | Non-     | Other   | Vacant | Cost of FCA   | Full            | Historical Status     | Seismic    |  |
|   |                | Built | Gross Sq. | Sq. Ft.    |           | Clinical |         |        | Deficiencies* | Replacement     |                       | Risk       |  |
|   |                |       | Ft.       |            |           |          |         |        |               | Cost            |                       |            |  |
| Total                                   |                |       | 1,383,853 | 367,181    | 350,638   | 225,353  | 420,667 | 20,014 | \$42,784,095  | \$1,026,158,024 |                       |            |  |
| Main Hospital and Clinical Addition (1) | Hospital       | 1964  | 892,082   | 271,741    | 154,127   | 208,445  | 237,941 | 19,828 | \$39,742,188  | \$682,319,432   | Not Historic          | Exempt     |  |
| Bed Tower (1B)                          | Hospital       | 2011  | 248,884   | 24,687     | 187,211   | 2,174    | 34,812  | 0      | \$672,888     | \$169,859,095   | Not Historic          | Exempt     |  |
| New AmbCare Addition (1A)               | Outpatient F   | 2003  | 157,753   | 70,753     | 0         | 5,926    | 80,888  | 186    | \$1,729,880   | \$117,656,898   | Not Historic          | Exempt     |  |
| Energy Center (EC)                      | Industrial     | 2005  | 19,966    | 0          | 0         | 410      | 19,556  | 0      | \$359,628     | \$13,436,369    | Not Historic          | Exempt     |  |
| Cuyahoga PRRTP House (TR)               | Housing        | 1908  | 19,623    | 0          | 9,300     | 0        | 10,323  | 0      | \$0           | \$12,949,375    | Unknown/Not Evaluated | Exempt     |  |
| Wade Park Annex (NAV)                   | Institutional  | 2005  | 17,962    | 0          | 0         | 6,708    | 11,254  | 0      | \$279,512     | \$12,087,752    | Not Historic          | Exempt     |  |
| Fisher House 1 (541FH1)                 | Housing        | 2019  | 13,287    | 0          | 0         | 0        | 13,287  | 0      | \$0           | \$8,575,662     | Not Historic          | Not Listed |  |
| Fisher House 2 (541FH2)                 | Housing        | 2019  | 12,606    | 0          | 0         | 0        | 12,606  | 0      | \$0           | \$8,136,133     | Not Historic          | Not Listed |  |
| Cuyahoga TR House Garage (TR-1)         | Service        | 2014  | 1,690     | 0          | 0         | 1,690    | 0       | 0      | \$0           | \$1,137,307     | Not Historic          | Not Listed |  |

<sup>\*</sup>Project Costs to remediate FCAs vary significantly, from below assessed value to more than 3 times the value \*\*"Non-Contributing" is a non-contributing element of a landmark or listed district



# Facilities **Building Inventory (Leased)**

|  |             |               |                          | Clev                  | eland-Ohi | o                |         |        |                               |                       |              |
|--|-------------|---------------|--------------------------|-----------------------|-----------|------------------|---------|--------|-------------------------------|-----------------------|--------------|
| Function Title                           | Current Use | Year<br>Built | Building<br>GrossSq. Ft. | Outpatient<br>Sq. Ft. | Inpatient | Non-<br>Clinical | Other   | Vacant | Lease Termination (Hard)      | Year of<br>Activation | Annual Rent  |
| Total                                    |             |               | 493,592                  | 229,843               | 0         | 130,389          | 131,609 | 1,751  |                               |                       | \$27,615,259 |
| Cleveland Admin - EUL                    | Office      | 2010          | 150,412                  | 6,547                 | 0         | 87,396           | 54,718  | 1,751  | Monday, May 13, 2024          | 2011                  | \$8,110,591  |
| Parma CBOC                               | CBOC        | 2011          | 77,514                   | 45,916                | 0         | 8,662            | 22,936  | 0      | Saturday, January 10, 2032    | 2012                  | \$3,129,959  |
| David F. Winder VA Clinic                | CBOC        | 2014          | 26,697                   | 16,936                | 0         | 2,751            | 7,010   | 0      | Saturday, January 21, 2034    | 2014                  | \$1,668,301  |
| Youngstown CBOC                          | CBOC        | 1990          | 25,847                   | 11,689                | 0         | 3,743            | 10,415  | 0      | Tuesday, September 15, 2015   | 2001                  | \$757,819    |
| Canton CBOC                              | CBOC        | 2003          | 23,350                   | 15,454                | 0         | 4,241            | 3,655   | 0      | Tuesday, January 31, 2023     | 2003                  | \$856,081    |
| Akron CBOC                               | CBOC        | 2003          | 22,803                   | 13,210                | 0         | 3,624            | 5,969   | 0      | Saturday, December 31, 2022   | 2003                  | \$882,822    |
| Lorain CBOC                              | CBOC        |               | 22,703                   | 17,362                | 0         | 250              | 5,091   | 0      | Sunday, May 23, 2021          | 2016                  | \$879,120    |
| Lake County (Painesville), OH CBOC       | CBOC        |               | 22,431                   | 20,595                | 0         | 498              | 1,338   | 0      | Wednesday, March 17, 2032     | 2018                  | \$612,423    |
| Akron Rehab Clinic                       | CBOC        | 1984          | 14,148                   | 4,800                 | 0         | 979              | 8,369   | 0      | Sunday, February 5, 2023      | 2008                  | \$503,628    |
| Sandusky, OH CBOC                        | CBOC        |               | 13,944                   | 11,772                | 0         | 513              | 1,659   | 0      | Friday, September 1, 2028     | 2018                  | \$176,030    |
| New Philadelphia CBOC                    | CBOC        |               | 12,080                   | 8,235                 | 0         | 1,845            | 2,000   | 0      | Sunday, January 31, 2027      | 2007                  | \$299,014    |
| Warren CBOC                              | CBOC        |               | 10,000                   | 5,933                 | 0         | 1,845            | 2,222   | 0      | Saturday, September 11, 2021  | 2006                  | \$419,020    |
| East Liverpool/Calcutta CBOC             | CBOC        |               | 10,000                   | 4,842                 | 0         | 1,884            | 3,274   | 0      | Monday, February 13, 2017     | 2007                  | \$259,876    |
| Cleveland Ambulatory Surgery             | Other       | 2014          | 10,000                   | 10,000                | 0         | 0                | 0       | 0      | Saturday, April 13, 2024      | 2014                  | \$472,496    |
| Cleveland OH warehouse                   | Warehouse   |               | 10,000                   | 0                     | 0         | 10,000           | 0       | 0      | Wednesday, September 30, 2015 | 2010                  | \$82,800     |
| Cleveland Dialysis                       | Other       | 1928          | 9,995                    | 9,995                 | 0         | 0                | 0       | 0      | Monday, June 5, 2023          | 2013                  | \$264,165    |
| Ravenna OH CBOC                          | CBOC        | 2004          | 9,927                    | 5,488                 | 0         | 1,853            | 2,586   | 0      | Saturday, September 29, 2018  | 2003                  | \$375,273    |
| Cleveland Community Resource Referral Ce | Other       | 2012          | 8,103                    | 7,744                 | 0         | 172              | 187     | 0      | Friday, December 30, 2022     | 2012                  | \$226,953    |
| Akron Community Resource Referral Center | Other       | 2012          | 6,738                    | 6,425                 | 0         | 133              | 180     | 0      | Thursday, December 8, 2022    | 2013                  | \$177,082    |

Source: CAI Leases Report 9-7-2019 10.6.V10.NortheastOhio.541



# Facilities **Building Inventory (Leased), cont.**

| Cleveland-Ohio                    |             |       |              |            |           |          |       |        |                           |            |             |
|-----------------------------------|-------------|-------|--------------|------------|-----------|----------|-------|--------|---------------------------|------------|-------------|
| Function Title                    | Current Use | Year  | Building     | Outpatient | Inpatient | Non-     | Other | Vacant | Lease Termination (Hard)  | Year of    | Annual Rent |
|                                   |             | Built | GrossSq. Ft. | Sq. Ft.    |           | Clinical |       |        |                           | Activation |             |
| Cleveland (McCafferty) CBOC       | СВОС        | 1960  | 4,353        | 4,353      | 0         | 0        | 0     | 0      | Sunday, October 5, 2008   | 1998       | \$1         |
| Canton CBOC Modular Trailer       | CBOC        |       | 2,547        | 2,547      | 0         | 0        | 0     | 0      | Tuesday, January 31, 2023 | 2005       | \$81,873    |
| Cleveland Parking Structure - EUL | Parking     | 2010  | 0            | 0          | 0         | 0        | 0     | 0      | Monday, May 13, 2024      | 2011       | \$7,379,932 |

Source: CAI Leases Report 9-7-2019 10.6.V10.NortheastOhio.541#2

## **Facilities**

## **Summary of Architectural and Engineering Challenges – Cleveland-Ohio**

| Infrastructure Category      | Major Challenges – Cleveland   |
|------------------------------|--|
| Site Utilities               | None noted   |
| Parking                      | <ul> <li>Gap in available parking at main campus and a number of other care sites at peak times. Greatest impact in Wednesday and Thursday late morning. Additional parking has been added as possible.</li> </ul> |
| Architecture                 | Fairly land-locked; challenges with swing space during renovation projects   |
| Electrical                   | Past, present, and future projects to continually upgrade and improve utilities  |
| Plumbing                     | Past, present, and future projects to continually upgrade and improve utilities  |
| HVAC                         | Past, present, and future projects to continually upgrade and improve utilities  |
| Medical Gases                | Past, present, and future projects to continually upgrade and improve utilities  |
| Clinical Program Adjacencies | Opportunities to reallocate shared clinic space to optimize adjacencies; SPS is undersized and pending renovation project  |
| Other Program Adjacencies    | • n/a  |
| Other                        | <ul> <li>Overall, while there are challenges there are not issues that seem onerous or unexpected given size of physical plant. A list of current FCA items has been uploaded to Folder 11</li> </ul>              |

10.7.V10.NortheastOhio.541 **Source: Locally Provided GFI** 

Facilities Active and Planned Projects — Cleveland-Ohio



|  | Project  | SF/ Count | Status                        | Estimated<br>Cost |
|--|--|-----------|-------------------------------|-------------------|
| Active Minor Construction <sup>1</sup> | Construct VHA/VBA Compensation & Pension Addition (541-371)                            | 30,000    | Construction Awarded 10/05/17 | \$9,900,000       |
|  | Emergency Department (ED) and Specialty Care Clinic Addition (541-370)                 | 28,000    | Design Awarded 03/28/11       | \$9,163,000       |
|  | Expand Patient Parking Garage (541-378)  | 1,001     | Design Awarded 09/27/18       | \$6,280,000       |
|  | Expand Primary Care for PACT Realignment (541-376)                                     | 24,000    | Design Awarded 01/16/19       | \$13,000,000      |
|  | Expand SCI and Acute Special Programs Additon (541-377)                                | 13,000    | Design Awarded 12/12/18       | \$13,000,000      |
|  | Prepare for Approved Cleveland Fisher House (541-372)                                  | 27,000    | Construction Awarded 04/12/18 | \$950,000         |
|  | Surgery Addition (541-364)   | 6,000     | Construction Awarded 10/04/12 | \$9,987,500       |
| Active NRMs <sup>1</sup>               | Cardiac Cath Site Prep (541-CSI-111)   |           | Design Awarded 04/26/19       | \$300,000         |
|  | Correct Boiler Plant Deaerator Tank (541-19-509)                                       |           | Design Awarded 06/11/19       | \$350,000         |
|  | Enhance Medical, Speciality Care, and Administrative Services (23NR4KA17) (541-15-101) | 21,500    | Construction Awarded 09/02/15 | \$4,950,000       |
|  | Expand MRI Suite (541-CSI-103)   | 2,850     | Design Awarded 03/21/19       | \$6,600,000       |
|  | Expand TCU and Pallative Care (541-18-503)   |           | Construction Awarded 09/17/18 | \$990,000         |
|  | Improve Site Utilities (23NR6KA07) (541-16-103)  |           | Construction Awarded 09/26/16 | \$6,800,000       |
|  | Increase IRM Physical Security (23NR9KC05) (541-19-102)                                |           | Design Awarded 09/07/18       | \$2,650,000       |
|  | Install UPS for Chiller/Boiler Plant Controls (541-19-507)                             |           | Planned                       | \$200,000         |
|  | Modify Cleveland Data Center (541-19-202)  |           | Planned                       | \$363,400         |
|  | Provide and Install Power Swing Door Operators (541-20-501)                            |           | Planned                       | \$220,000         |
|  | Provide Anti-ligature Door Sensors (541-20-107)  |           | Planned                       | \$292,000         |
|  | Provide Facility Master Plan (541-14-213)  |           | Design Awarded 08/01/14       | \$389,979         |
|  | Provide Interior Signage Package (541-16-526)  |           | Construction Awarded 03/27/18 | \$505,000         |
|  | Provide Lighting Protection Study (541-17-510)   |           | Construction Awarded 08/21/18 | \$260,000         |

Note: All active projects have received all levels of approvals and are assumed to be proceeding.



# Facilities Active and Planned Projects — Cleveland-Ohio, cont.

|                          | Project  | SF/ Count | Status                        | Estimated<br>Cost |
|--------------------------|--|-----------|-------------------------------|-------------------|
| A 12 - NDA 1             | Durity December The Court of a Cicil and Division (CAA 40 CCC)               |           | Decision A 100 /4 / / 40      | ¢250,000          |
| Active NRMs <sup>1</sup> | Provide Pneumatic Tube Station for SICU and Blood Draw (541-19-503)          |           | Design Awarded 09/14/18       | \$360,000         |
|                          | Provide Site Prep for Parma Mobile MRI (541-CSI-106)                         |           | Construction Awarded 07/10/19 | \$385,000         |
|                          | Provide WAGD Gases to Ambulatory Surgery (541-18-603)                        |           | Construction Awarded 06/05/19 | \$400,000         |
|                          | Reconfigure 1B229 Mechanical Room (541-18-510)                               | 1,200     | Construction Awarded 08/12/19 | \$450,000         |
|                          | Remove Parking Garage Office Trailers (541-17-508)                           |           | Construction Awarded 08/01/17 | \$275,000         |
|                          | Remove Sterile Steam Humidifiers (541-18-502)                                |           | Construction Awarded 07/12/19 | \$705,000         |
|                          | Renovate Ambulatory Care Medical Speciality Clinics (23NR4KA23) (541-15-102) | 11,075    | Construction Awarded 06/08/15 | \$3,750,000       |
|                          | Renovate and Expand Endoscopy (23NR6KA13) (541-16-107)                       | 14,000    | Construction Awarded 09/17/16 | \$6,700,000       |
|                          | Renovate and Reconfigure Clinical Services (23NR9KA19) (541-20-101)          | 13,000    | Planned                       | \$6,600,000       |
|                          | Renovate Boiler Plant Heat Recovery System (541-18-203)                      |           | Construction Awarded 12/27/17 | \$385,000         |
|                          | Renovate Inpatient SCI Suite (23NR6KA12) (541-16-106)                        | 24,000    | Construction Awarded 11/27/16 | \$4,500,000       |
|                          | Renovate Operating Rooms (23NR8KC01) (541-19-101)                            | 22,000    | Design Awarded 08/02/18       | \$9,150,000       |
|                          | Renovate Pharmacy to Comply with USP Directives (23NR8KA30) (541-19-103)     |           | Design Awarded 06/14/18       | \$2,200,000       |
|                          | Renovate Radiation Therapy (23NR9KA23) (541-20-102)                          | 15,000    | Planned                       | \$6,400,000       |
|                          | Renovate Research K-wing (23NR9KA20) (541-20-104)                            | 23,232    | Planned                       | \$12,350,000      |
|                          | Renovate Research North (23NR6KA23) (541-13-104)                             | 7,300     | Construction Awarded 08/24/17 | \$4,100,000       |
|                          | Repair Exterior Caulking (541-19-511)  |           | Planned                       | \$120,000         |
|                          | Repair Outdoor Ductwork Insulation (541-18-511)                              |           | Design Awarded 07/09/18       | \$830,000         |
|                          | Repair Parking Garage Dry Sprinkler Sytem (541-19-515)                       |           | Planned                       | \$125,000         |
|                          | Replace AC 17&18 (23NR8KA02) (541-18-104)                                    |           | Design Awarded 03/28/18       | \$7,500,000       |
|                          | Replace Atrium Elevators (23NR6KA11) (541-16-105)                            |           | Construction Awarded 05/19/17 | \$1,800,000       |

Note: All active projects have received all levels of approvals and are assumed to be proceeding.



# Facilities Active and Planned Projects — Cleveland-Ohio, cont.

|   | Project  | SF/ Count | Status                        | Estimated<br>Cost |
|---|--|-----------|-------------------------------|-------------------|
| Active NRMs <sup>1</sup>  | Replace Atrium Roof (541-19-502)                                       |           | Construction Awarded 08/07/19 | \$560,000         |
|   | Replace CARES Tower Roof and Overhangs (23NR8KA03) (541-18-103)        |           | Design Awarded 02/21/18       | \$5,950,000       |
|   | Replace Medical Center Overhead Paging System (23NR8KA35) (541-19-104) |           | Design Awarded 07/09/18       | \$1,650,000       |
|   | Replace Surgery Curtainwall (541-19-501)                               |           | Construction Awarded 03/21/19 | \$715,000         |
|   | Replace Surgery Roof (23NR8KA05) (541-18-105)                          |           | Design Awarded 04/13/18       | \$3,600,000       |
|   | Replace Surgery Substation (23NR9KA15) (541-19-504)                    |           | Construction Awarded 07/31/19 | \$820,000         |
|   | Study Intergration of Tridium and Andover Controls (541-16-513)        |           | Design Awarded 09/19/16       | \$110,000         |
|   | Upgrade Fire Alarm System (23NR7KA28) (541-18-101)                     |           | Design Awarded 09/28/17       | \$4,400,000       |
|   | Upgrade Smart Building System (541-19-201)                             |           | Design Awarded 09/11/18       | \$880,000         |
|   | WP Siemans PET CT Site Prep (541-CSI-109)                              |           | Construction Awarded 06/18/19 | \$200,000         |
| Active Projects Total Estimated Cost (Major, Minor, NRM) <sup>1</sup> | Active Projects Total Estimated Cost (Major, Minor, NRM)               |           |                               | \$175,120,879     |
| SCIP FY2020 Submitted Projects (10-Year-Plan)                         | Green Management Program   | 1         |                               | \$1,590,000       |
|   | Major Construction   | 2         |                               | \$445,000,000     |
|   | Minor Construction   | 1         |                               | \$15,800,000      |
|   | NRM-Infrastructure Modernization                                       | 4         |                               | \$14,300,000      |
|   | NRM-Sustainment  | 5         |                               | \$29,950,000      |
|   | Total Estimated Cost SCIP Projects                                     | 13        |                               | \$506,640,000     |

Note: All active projects have received all levels of approvals and are assumed to be proceeding.



# Mission

# Mission Medical Education/Training – Cleveland-Ohio

| Sponsoring Facility   | Program Type | Specialty  | AY 2019 Training Positions (FTEs)* |
|---|--------------|--|------------------------------------|
| Case Western Reserve Univ/Univ Hospitals Case Medical Center (Clevela | GME          | Cardiovascular disease                           | 6.0                                |
|   | GME          | Chief Resident (IM - Quality and Patient Safety) | 1.0                                |
|   | GME          | Chief Resident (IM)                              | 2.0                                |
|   | GME          | Dermatology                                      | 5.0                                |
|   | GME          | Endocrinology, diabetes, and metabolism          | 2.0                                |
|   | GME          | Family medicine                                  | 1.0                                |
|   | GME          | Gastroenterology                                 | 3.0                                |
|   | GME          | Geriatric medicine                               | 3.0                                |
|   | GME          | Hematology and Oncology                          | 2.5                                |
|   | GME          | Hematology and Pathology                         | 0.0                                |
|   | GME          | Infectious Disease                               | 4.0                                |
|   | GME          | Internal medicine                                | 62.5                               |
|   | GME          | Interventional cardiology                        | 1.0                                |
|   | GME          | Nephrology                                       | 1.0                                |
|   | GME          | Neurological surgery                             | 0.5                                |
|   | GME          | Neurology  | 5.0                                |
|   | GME          | Ophthalmology                                    | 6.0                                |
|   | GME          | Orthopaedic surgery                              | 4.5                                |
|   | GME          | Otolaryngology                                   | 3.0                                |

<sup>\*</sup>Base Positions = Training Positions, GME = Graduate Medical Education, VACAA = Additional GME Slots aligned to The Veterans Access, Choice, and Accountability Act of 2014 (VACAA).

# Mission Medical Education/Training – Cleveland-Ohio, cont.

| Sponsoring Facility   | Program Type | Specialty   | AY 2019 Training Positions (FTEs)* |
|---|--------------|---|------------------------------------|
| Case Western Reserve Univ/Univ Hospitals Case Medical Center (Clevela | GME          | Pain Medicine   | 0.5                                |
|   | GME          | Plastic surgery - integrated                                  | 1.0                                |
|   | GME          | Psychiatry  | 5.5                                |
|   | GME          | Pulmonary disease and critical care medicine                  | 4.0                                |
|   | GME          | Radiation oncology  | 0.5                                |
|   | GME          | Radiology-diagnostic  | 2.0                                |
|   | GME          | Rheumatology  | 1.0                                |
|   | GME          | Sleep Medicine  | 2.0                                |
|   | GME          | Surgery-general   | 7.0                                |
|   | GME          | Urology   | 2.0                                |
|   | GME          | Vascular surgery  | 1.0                                |
| Case Western Reserve University School of Dental Medicine             | Dental       | Dentistry - Advanced Education in General Dentistry 12 Months | 4.0                                |
|   | Dental       | Dentistry - Oral and Maxillofacial Surgery                    | 1.0                                |
| Cleveland Clinic Foundation (Ohio)                                    | GME          | Allergy and immunology  | 1.0                                |
|   | GME          | Internal medicine   | 4.0                                |
|   | GME          | Thoracic surgery  | 0.0                                |
|   | GME          | Urology   | 1.0                                |
|   | GME          | Vascular surgery - integrated                                 | 1.0                                |
| MetroHealth Medical Center  | GME          | Anesthesiology  | 0.9                                |

<sup>\*</sup>Base Positions = Training Positions, GME = Graduate Medical Education, VACAA = Additional GME Slots aligned to The Veterans Access, Choice, and Accountability Act of 2014 (VACAA).

# Mission Medical Education/Training – Cleveland-Ohio, cont.

| Sponsoring Facility        | Program Type      | Specialty                                   | AY 2019 Training<br>Positions (FTEs)* |
|----------------------------|-------------------|---|---------------------------------------|
| MetroHealth Medical Center | GME               | Pathology-Anatomic and Clinical             | 1.0                                   |
|                            | GME               | Physical medicine and rehabilitation        | 3.0                                   |
| Other Training Programs    | Advanced Fellows  | Advanced Geriatrics (GRECC)                 | 1.0                                   |
|                            | Associated Health | Audiology Doctoral Extern (4th Year)        | 3.0                                   |
|                            | Associated Health | Audiology Doctoral Trainee (Clin. Rotation) | 0.0                                   |
|                            | Associated Health | Blind Rehab Mstrs Intern                    | 5.0                                   |
|                            | Associated Health | Clinical Pastoral Ed Resident (Regular)     | 4.0                                   |
|                            | Associated Health | Clinical Pastoral Ed Resident (Specialty)   | 2.0                                   |
|                            | Associated Health | LPMHC Masters Intern                        | 2.0                                   |
|                            | Nursing           | Nursing - Nurse Practitioner                | 4.0                                   |
|                            | Nursing           | Nursing - Nurse Practitioner (NP)           | 4.0                                   |
|                            | Nursing           | Nursing - Research Practicum                | 0.0                                   |
|                            | Associated Health | Nutrition/Dietetics Intern                  | 12.0                                  |
|                            | Associated Health | Optometry Resident                          | 5.0                                   |
|                            | Associated Health | Pharmacy Resident                           | 10.0                                  |
|                            | Associated Health | Physical Therapy                            | 4.0                                   |
|                            | Associated Health | Podiatry Resident                           | 9.0                                   |
|                            | Associated Health | Psychology                                  | 26.0                                  |
|                            | Advanced Fellows  | Quality Scholars                            | 8.8                                   |

<sup>\*</sup>Base Positions = Training Positions, GME = Graduate Medical Education, VACAA = Additional GME Slots aligned to The Veterans Access, Choice, and Accountability Act of 2014 (VACAA).



# Mission Medical Education/Training – Cleveland-Ohio, cont.

| Sponsoring F            | Progran Progran | n Type                            | Specialty | AY 2019 Training Positions (FTEs)* |
|-------------------------|-----------------|-----------------------------------|-----------|------------------------------------|
| Other Training Programs | Associated      | d Health Social Work              |           | 7.0                                |
|                         | Associated      | Health Speech Path Masters Intern |           | 4.0                                |

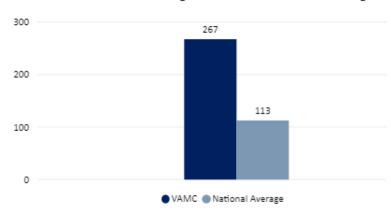
<sup>\*</sup>Base Positions = Training Positions, GME = Graduate Medical Education, VACAA = Additional GME Slots aligned to The Veterans Access, Choice, and Accountability Act of 2014 (VACAA).



# Mission Medical Education/Training – Cleveland-Ohio, cont.

| Total VAMC Budget and FTE by Program Type |              |                                       |  |
|---|--------------|---------------------------------------|--|
| Program Type                              | Budget       | AY 2019 Training<br>Positions (FTEs)* |  |
| Advanced Fellows                          | \$569,512    | 9.8                                   |  |
| Associated Health                         | \$3,375,056  | 93.0                                  |  |
| Dental                                    | \$370,260    | 5.0                                   |  |
| GME                                       | \$11,359,587 | 151.4                                 |  |
| Nursing                                   | \$400,370    | 8.0                                   |  |
| Total                                     | \$16,074,785 | 267.2                                 |  |

## Number of Training Positions: VAMC vs National Average



Rank: 19 out of 157 training sites (ranked by number of positions)

<sup>\*</sup>Base Positions = Training Positions, GME = Graduate Medical Education, VACAA = Additional GME Slots aligned to The Veterans Access, Choice, and Accountability Act of 2014 (VACAA).



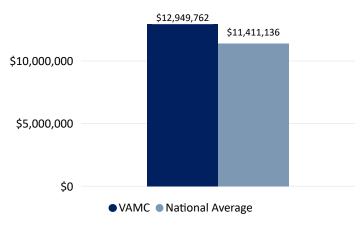
## Mission Research – Cleveland-Ohio

| VERA Allocation            |                                    |                                |  |
|----------------------------|------------------------------------|--------------------------------|--|
| Medical Center             | % National 2019<br>VERA Allocation | Total Research VERA Allocation |  |
| (V10) (541) Cleveland-Ohio | 1.2%                               | \$12,949,762                   |  |
| National Total             | 100.0%                             | \$1,067,382,760                |  |

Research dollars for the Quality Enhancement Research Initiative (QUERI) are included in the formula for allocating research support dollars.

| Total VAMC Supported Research Projects     |                       |                       |  |
|--|-----------------------|-----------------------|--|
| Funding Group                              | Number of<br>Projects | Reported Cost<br>FY17 |  |
| Department of Veterans Affairs (VACO)      | 61                    | \$10,237,271          |  |
| National Institutes of Health (NIH)        | 12                    | \$1,280,778           |  |
| Other U.S. Federal Agency                  | 8                     | \$810,941             |  |
| Private Proprietary Company                | 15                    | \$404,973             |  |
| Voluntary Agency or Foundation             | 9                     | \$115,799             |  |
| Academic Institution, Donor, or Government | 3                     | \$100,000             |  |
| TOTAL                                      | 108                   | \$12,949,762          |  |

## 2019 VERA Allocation vs Average National Allocation\*



Rank: 31 out of 96 research sites (ranked by total funding)

\*96 VAMCs received VERA Allocation for FY19



## Mission

# Research – Cleveland-Ohio, cont.

| Top 5 Projects by Funding \$   |                                  |  |
|--|----------------------------------|--|
| Project Name   | FY17 Actual Funding <sup>1</sup> |  |
| Advanced Platform Technology Center  | \$951,490                        |  |
| FES Center of Excellence Renewal   | \$841,769                        |  |
| Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study (GRADE) | \$430,485                        |  |
| Resveratrol Prevents Microelectrode Mediated Neurodegeneration                       | \$293,061                        |  |
| Peripheral Interfaces in Amputees to Restore Sensation                               | \$278,639                        |  |

| Top 5 VACO-Funded Projects by \$                               |                                  |  |  |  |
|--|----------------------------------|--|--|--|
| Project Title  | FY17 Actual Funding <sup>1</sup> |  |  |  |
| Advanced Platform Technology Center                            | \$951,490                        |  |  |  |
| FES Center of Excellence Renewal                               | \$841,769                        |  |  |  |
| Resveratrol Prevents Microelectrode Mediated Neurodegeneration | \$293,061                        |  |  |  |
| Peripheral Interfaces in Amputees to Restore Sensation         | \$278,639                        |  |  |  |
| Hybrid Neuroprosthesis with Power Assist for Walking in SCI    | \$265,862                        |  |  |  |

<sup>1.</sup> The project's actual (non-discounted) grant dollars.



# Cost



### VISN 10: Northeast Ohio Market

## Cost



## **Conceptual Cost Analysis for Inpatient Services – Methodology Overview**

- The top VAMC inpatient Diagnostic Related Groups (DRGs)¹ by 2018 Veteran demand (discharges) with costs were identified.
  - √ VA costs are taken at face value and cost allocations have not been validated.
- For the top VA DRGs, the VA Average Adjusted Total Cost per discharge¹ was compared to the average Medicare reimbursement per discharge and Community Care purchase cost per discharge.
  - ✓ Medicare reimbursement includes Part A hospital plus estimated Part B professional (physician) costs, calculated using a proxy 40% of the Part A costs (note: typically, Part B is based on procedures that vary by type of service and discharge).²
  - ✓ An additional 15% was included as a proxy for Third Party Administration (TPA) costs borne on the VA for processing and administering each commercial inpatient stay.<sup>3</sup>
  - ✓ For each DRG, as applicable and available, Community Care<sup>4</sup> data was used to compare cost-to-purchase for Veterans assigned to the treating facility.
- As an additional comparison, the top Community Care<sup>4</sup> purchased DRGs by volume and the cost to purchase that care are included in the bottom table.

Note: This analysis is conceptual in nature comparing internal VA cost to provide care to Veterans to potential cost to acquire the same care in the market at Medicare rates as well as to existing experience with purchase of Non-VA care, as applicable. It is meant to provide an additional input for the market assessments and will not be used to make any specific recommendations. Given the high-level nature of this assessment, further cost benefit analysis (as defined by the MISSION Act) is necessary to better understand the comparability of VA internal cost to provide care to Veterans compared to rates to acquire the care in the community.



## Cost

## **Conceptual Cost Analysis for Inpatient Services – Cleveland-Ohio**

| VA Cost and Cost Comparisons by DRG – Cleveland VAMC                                      |                                  |  |  |   |  |  |
|---|----------------------------------|--|--|---|--|--|
| Top VA DRGs by Total Discharges FY2018 <sup>1</sup>                                       | Total VA Discharges <sup>1</sup> | Average VA Total<br>Cost per Case <sup>1</sup> | Estimated Cost to<br>Purchase <sup>2,*</sup> | Total Community<br>Care Discharges <sup>3</sup> | Average Payment<br>per Case <sup>3</sup> |  |
| 885) PSYCHOSES  | 368                              | \$34,252                                       | \$11,391                                     | 27  | \$7,03                                   |  |
| 897) ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W/O MCC                  | 323                              | \$17,419                                       | \$7,599                                      | 7.  | \$4,87                                   |  |
| 895) ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY                            | 268                              | \$33,994                                       | \$16,919                                     |   |  |  |
| 392) ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC                               | 209                              | \$6,600  | \$7,166                                      | 14  | \$5,35                                   |  |
| 292) HEART FAILURE & SHOCK W.CC   | 171                              | \$16,971                                       | \$9,797                                      | 18  | \$6,50                                   |  |
| 503) CELLULITIS W/O MCC   | 168                              | \$9,184  | \$8,044                                      | 15  | \$5,74                                   |  |
| 554) BONE DISEASES & ARTHROPATHIES W/O MCC  | 166                              | \$11,341                                       | \$7,619                                      | 4   | \$5,09                                   |  |
| 291) HEART FAILURE & SHOCK W MCC OR PERIPHERAL EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) | 157                              | \$22,852                                       | \$14,458                                     | 39  | \$11,39                                  |  |
| 125) OTHER DISORDERS OF THE EYE W/O MCC   | 155                              | \$30,197                                       | \$7,694                                      |   | N/                                       |  |
| 84) ORGANIC DISTURBANCES & INTELLECTUAL DISABILITY  | 142                              | \$44,067                                       | \$14,802                                     | N/A   | N,                                       |  |
| Remaining DRGs  | 7,723                            | \$24,350                                       |  |   |  |  |

| Community Care Costs by DRG  |   |  |  |  |
|--|---|--|--|--|
| Top Community Care DRGs by Total Discharges FY2018 <sup>1</sup>                            | Total Community<br>Care Discharges <sup>3</sup> | Average Payment<br>per Case <sup>3</sup> |  |  |
| (871) SEPTICEMIA OR SEVERE SEPSIS W/O MV>96 HOURS W MCC                                    | 71  | \$11,387                                 |  |  |
| (470) MAJOR HIP AND KNEE JOINT REPLACEMENT OR REATTACHMENT. OF LOWER EXTREMITY W/O MCC     | 44  | \$14,406                                 |  |  |
| (291) HEART FAILURE & SHOCK W MCC OR PERIPHERAL EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) | 39  | \$11,393                                 |  |  |
| (775) VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES  | 31  | \$4,610                                  |  |  |
| (189) PULMONARY EDEMA & RESPIRATORY FAILURE  | 31  | \$7,511                                  |  |  |
| (247) PERC CARDIOVASC PROC W DRUG-ELUTING STENT W/O MCC                                    | 31  | \$14,407                                 |  |  |
| (885) PSYCHOSES  | 27  | \$7,039                                  |  |  |
| (190) CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC  | 22  | \$7,664                                  |  |  |
| (683) RENAL FAILURE W CC   | 21  | \$6,137                                  |  |  |
| (025) CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W MCC                              | 20  | \$36,097                                 |  |  |
| (309) CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC                                       | 20  | \$5,038                                  |  |  |
| (001) HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC                             | 20  | \$22,493                                 |  |  |
| Remaining DRGs   | 1,099   | \$17,025                                 |  |  |

| n-House vs Community Care           | Total Discharges | Total Cost    |  |  |
|-------------------------------------|------------------|---------------|--|--|
| n-House Inpatient Cost <sup>1</sup> | 9,850            | \$237,628,048 |  |  |
| community Care <sup>3</sup>         | 1,476            | \$20,711,467  |  |  |

\*Comparing F/2018/VA Average Adjusted Total Cost per Discharge against the CMS average payment/claim per discharge for C/2018. Proxy of 40% of Part A costs to estimate potential Medicare Part B costsplus a proxy of 15% for TPA costs. DRGs with a high Average VA Total Cost potentially ided tolow volume and high LOS. Estimated cost to purchase = estimated total cost based on Medicare rates (Part A Part B) plus a proxy of TPA costs. Medicare dain payments not available for claims/procedures with 10 or fewer discharges due to CMS privacy requirements.

Sources: 1. MCAO Discharge National Data Extract, adjusted by netting out Fixed Indirect overhead as calculated by MCAO 2. 2018 CMS Medicines Standard Analytical Files (84) From Definitive Healthcare littles day a 50 mile radius from the parent facility 3. Office of Community Care (Community Care DRGs with 3 or fewer discharges were not included in the VA Cost and Cost Comparison by DRG table)

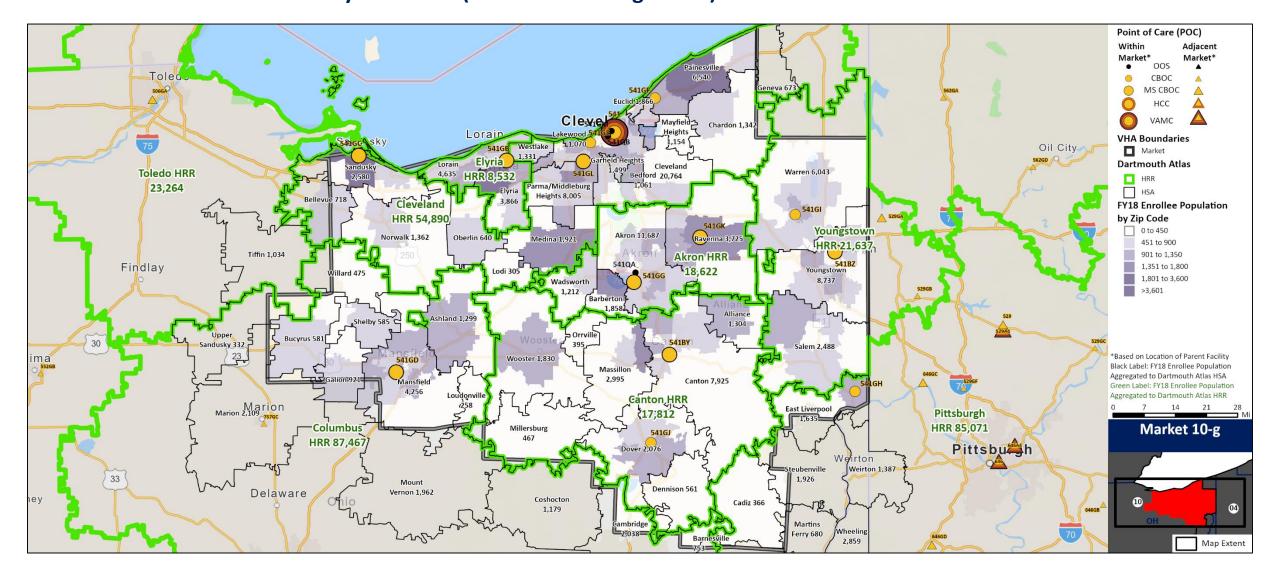




# VISN 10 Northeast Ohio Market Data Discovery & Findings Informational Addendum – Enrollment Proximity Analysis

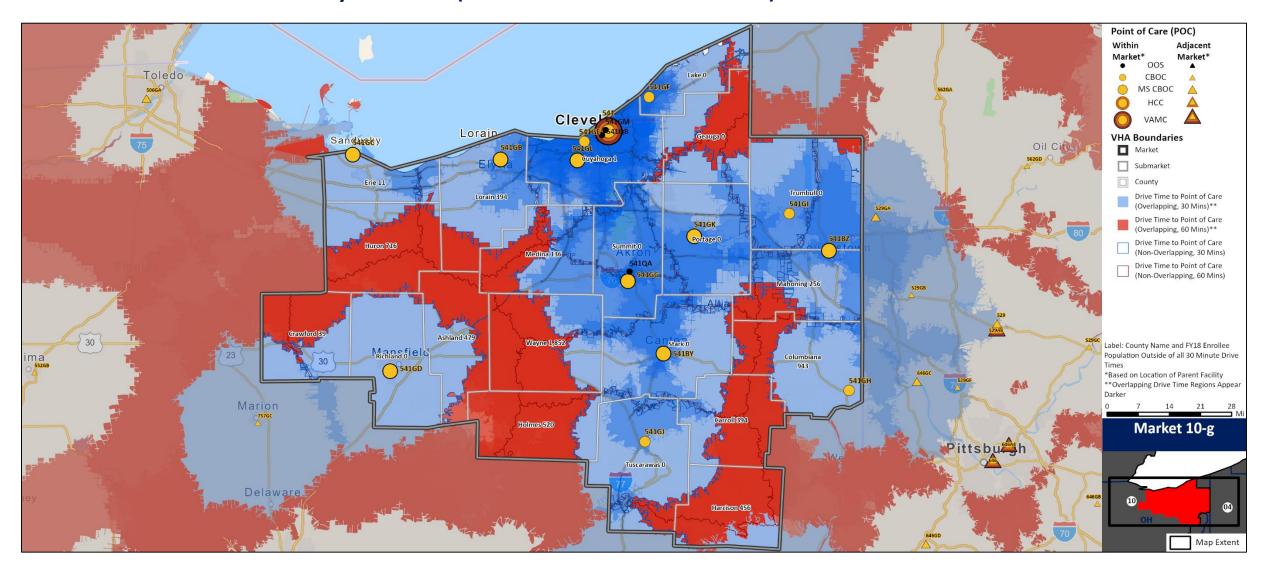
**VISN 10: Northeast Ohio Market** 

# **Access** ► Enrollment Proximity to VA Site (HSA and HRR Alignment)



## **VISN 10: Northeast Ohio Market**

# **Access** ► Enrollment Proximity to VA Site (30- and 60-minute Drive Times)\*



<sup>\*</sup> VA sites include VAMCs, HCCs, MS CBOCs, CBOCs, and OOS; drive times are not comparable to Primary and Secondary Care Enrollment Access measures as defined by PSSG.



# **Access** ► Enrollment Proximity to VA Site\* by Facility

| Facility Name                    | Facility                   | Total (Overlapping)** |        |           | Non-Overlapping*** |           |        |           |        |
|----------------------------------|----------------------------|-----------------------|--------|-----------|--------------------|-----------|--------|-----------|--------|
|                                  | Facility<br>Classification | 30 min                |        | 60 min    |                    | 30 min    |        | 60 min    |        |
|                                  |                            | Enrollees             | Users  | Enrollees | Users              | Enrollees | Users  | Enrollees | Users  |
| (V10) (541) Cleveland-Ohio       | VAMC                       | 28,644                | 20,807 | 74,151    | 53,203             | 3,147     | 2,323  | 3,147     | 2,323  |
| (V10) (541BY) Canton             | MS-CBOC                    | 18,434                | 13,899 | 51,159    | 37,437             | 10,710    | 8,009  | 12,452    | 9,208  |
| (V10) (541BZ) Youngstown         | MS-CBOC                    | 16,950                | 12,655 | 57,587    | 43,092             | 9,414     | 7,001  | 9,516     | 7,070  |
| (V10) (541GB) Lorain             | MS-CBOC                    | 19,576                | 13,800 | 71,681    | 51,204             | 10,801    | 7,724  | 11,290    | 8,057  |
| (V10) (541GC) Sandusky           | MS-CBOC                    | 5,551                 | 3,939  | 27,200    | 19,251             | 4,959     | 3,529  | 7,741     | 5,447  |
| (V10) (541GD) Mansfield          | MS-CBOC                    | 7,613                 | 5,798  | 27,380    | 19,271             | 7,607     | 5,796  | 10,157    | 7,595  |
| (V10) (541GE) McCafferty         | CBOC                       | 37,235                | 26,635 | 78,424    | 56,298             | 5,996     | 4,213  | 5,996     | 4,213  |
| (V10) (541GF) Lake County        | CBOC                       | 25,875                | 19,001 | 76,272    | 54,943             | 10,980    | 8,031  | 10,980    | 8,031  |
| (V10) (541GG) Akron              | MS-CBOC                    | 27,670                | 20,117 | 98,331    | 71,602             | 8,157     | 5,958  | 8,193     | 5,985  |
| (V10) (541GH) East Liverpool     | CBOC                       | 5,005                 | 3,810  | 41,379    | 30,679             | 4,101     | 3,124  | 7,094     | 5,227  |
| (V10) (541GI) Warren             | CBOC                       | 10,619                | 7,979  | 54,066    | 39,871             | 4,763     | 3,573  | 4,763     | 3,573  |
| (V10) (541GJ) New Philadelphia   | CBOC                       | 4,482                 | 3,606  | 31,933    | 23,940             | 3,087     | 2,542  | 4,077     | 3,280  |
| (V10) (541GK) Ravenna            | MS-CBOC                    | 14,253                | 10,364 | 95,196    | 69,219             | 5,443     | 3,988  | 5,547     | 4,073  |
| (V10) (541GL) Parma              | MS-CBOC                    | 36,186                | 25,758 | 81,229    | 58,342             | 15,695    | 10,937 | 15,695    | 10,937 |
| (V10) (541GM) Cleveland-Superior | OOS                        | 31,278                | 22,574 | 75,085    | 53,884             | 3,501     | 2,636  | 3,501     | 2,636  |
| (V10) (541QA) Summit County      | OOS                        | 28,433                | 20,638 | 101,952   | 74,195             | 9,800     | 6,901  | 9,805     | 6,904  |
| (V10) (541QB) Cleveland-Euclid   | OOS                        | 32,614                | 23,504 | 76,142    | 54,666             | 1,351     | 1,036  | 1,351     | 1,036  |

<sup>\*</sup> VA sites include VAMCs, HCCs, MS CBOCs, CBOCs, and OOS; drive times are not comparable to Primary and Secondary Care Enrollment Access measures as defined by PSSG. \*\* Drive time polygons overlap and may include ZIP code population assigned to two or more POC.

<sup>\*\*\*</sup> Drive time polygons are adjusted to closest facility to eliminate overlap and duplication of ZIP code population assignment to a POC.

## **VISN 10: Northeast Ohio Market**



# **Access** ► Enrollment Proximity to VA Site\* by County

| County<br>Name | Total<br>Enrollees | Enrollees Outside of<br>30-Minute Drive Time | Enrollees Outside of<br>60-Minute Drive Time |
|----------------|--------------------|--|--|
| Ashland, OH    | 1,728              | 479  | 0  |
| Carroll, OH    | 689                | 394  | 0  |
| Columbiana, OH | 3,939              | 943  | 0  |
| Crawford, OH   | 1,548              | 39   | 0  |
| Cuyahoga, OH   | 33,776             | 1  | 1  |
| Erie, OH       | 3,142              | 11   | 0  |
| Geauga, OH     | 1,945              | 0  | 0  |
| Harrison, OH   | 594                | 456  | 0  |
| Holmes, OH     | 538                | 520  | 0  |
| Huron, OH      | 2,178              | 716  | 0  |
| Lake, OH       | 7,098              | 0  | 0  |
| Lorain, OH     | 9,245              | 394  | 0  |
| Mahoning, OH   | 7,644              | 256  | 0  |
| Medina, OH     | 4,308              | 136  | 0  |
| Portage, OH    | 4,477              | 0  | 0  |
| Richland, OH   | 4,714              | 0  | 0  |
| Stark, OH      | 10,936             | 0  | 0  |
| Summit, OH     | 14,178             | 0  | 0  |
| Trumbull, OH   | 7,130              | 0  | 0  |
| Tuscarawas, OH | 3,152              | 0  | 0  |
| Wayne, OH      | 2,868              | 1,852  | 0  |

<sup>\*</sup> VA sites include VAMCs, HCCs, MS CBOCs, CBOCs, and OOS; drive times are not comparable to Primary and Secondary Care Enrollment Access measures as defined by PSSG.





# Post-DD&F Data Addendum

# **Data Compendium - General Information**

## **Purpose**

The Data Discovery and Findings (DD&F) data books prepared for each market presented a standardized collection of data used across markets to understand important aspects of each market. Because of the passage of time since the original market assessment phases were conducted, VA has developed an appendix to the DD&F to capture more recent data for key data points. Because the COVID-19 pandemic impacted 2020 and 2021 data, 2019 was the latest fiscal year incorporated for most data elements.

## **Contents**

Projected Population
Rurality
Outpatient Demand
Outpatient Encounters
Specialty Care Encounters
Surgical Cases
Inpatient Demand (Facility Level)
Market Demand
Enrollment Proximity
Facility
Building FCA
Academic Mission
Research Mission
Footnotes
Sources

## **Additional Information**

The Footnotes page provides additional details about tables and individual data elements when required. The Sources page provides the relevant data cube or program office sourcing information for each of the data elements.

# **Projected Veteran Enrollee and Eligible Population (Market)**

| Market               | Group             | FY19    | FY29    | 10 Year %<br>Growth |
|----------------------|-------------------|---------|---------|---------------------|
| (V10) Northeast Ohio | Eligible Veterans | 189,240 | 138,240 | -26.9%              |
|                      | Enrollees         | 124,464 | 114,554 | -8.0%               |

#### **Market Population Rank (out of 95 markets)**

| Market               | Total Enrollee<br>Rank FY19 | Total Enrollee<br>Rank FY29 | % Change Rank |
|----------------------|-----------------------------|-----------------------------|---------------|
| (V10) Northeast Ohio | 27                          | 29                          | 64            |

#### **County-Based Enrollee Projections**

| Market               | Sector   | County                 | FY19 Enrollees | FY29 Enrollees | 10 Year %<br>Change |
|----------------------|----------|------------------------|----------------|----------------|---------------------|
| (V10) Northeast Ohio | 10-g-9-A | (39035) Cuyahoga, OH   | 32,095         | 27,517         | -14.3%              |
|                      | 10-g-9-B | (39055) Geauga, OH     | 2,008          | 1,940          | -3.4%               |
|                      |          | (39085) Lake, OH       | 7,082          | 6,650          | -6.1%               |
|                      |          | (39133) Portage, OH    | 4,605          | 4,226          | -8.2%               |
|                      |          | (39155) Trumbull, OH   | 7,216          | 6,648          | -7.9%               |
|                      | 10-g-9-C | (39005) Ashland, OH    | 1,725          | 1,648          | -4.5%               |
|                      |          | (39033) Crawford, OH   | 1,576          | 1,439          | -8.7%               |
|                      |          | (39043) Erie, OH       | 3,128          | 2,873          | -8.2%               |
|                      |          | (39075) Holmes, OH     | 530            | 533            | 0.6%                |
|                      |          | (39077) Huron, OH      | 2,182          | 1,981          | -9.2%               |
|                      |          | (39139) Richland, OH   | 4,726          | 4,530          | -4.1%               |
|                      |          | (39169) Wayne, OH      | 2,903          | 2,716          | -6.4%               |
|                      | 10-g-9-D | (39019) Carroll, OH    | 697            | 649            | -6.9%               |
|                      |          | (39029) Columbiana, OH | 3,900          | 3,495          | -10.4%              |
|                      |          | (39067) Harrison, OH   | 590            | 539            | -8.7%               |
|                      |          | (39157) Tuscarawas, OH | 3,122          | 2,847          | -8.8%               |
|                      | 10-g-9-E | (39153) Summit, OH     | 13,514         | 12,797         | -5.3%               |
|                      | 10-g-9-F | (39093) Lorain, OH     | 9,338          | 9,044          | -3.1%               |
|                      |          | (39103) Medina, OH     | 4,393          | 4,386          | -0.2%               |
|                      | 10-g-9-G | (39099) Mahoning, OH   | 7,532          | 6,776          | -10.0%              |
|                      | 10-g-9-H | (39151) Stark, OH      | 11,603         | 11,318         | -2.5%               |

#### **Projected Veteran Enrollee and Eligible Population (Demographics)**

| Market               | Group             | Measure<br>Description | Measure<br>Categories | FY19    | FY29    | 10 Year %<br>Change |
|----------------------|-------------------|------------------------|-----------------------|---------|---------|---------------------|
| (V10) Northeast Ohio | Eligible Veterans | Age                    | <45                   | 34,649  | 24,943  | -28.0%              |
|                      |                   |                        | 45-64                 | 52,477  | 36,021  | -31.4%              |
|                      |                   |                        | 65+<br>(Combination)  | 102,115 | 77,275  | -24.3%              |
|                      |                   |                        | 65-84                 | 81,398  | 62,889  | -22.7%              |
|                      |                   |                        | 85-89                 | 12,491  | 8,728   | -30.1%              |
|                      |                   |                        | 90+                   | 8,226   | 5,658   | -31.2%              |
|                      |                   | Gender                 | Female                | 14,555  | 14,398  | -1.1%               |
|                      |                   |                        | Male                  | 174,685 | 123,842 | -29.1%              |
|                      |                   | Priority               | Priority 1-6          | 149,746 | 111,364 | -25.6%              |
|                      |                   |                        | Priority 7-8          | 39,494  | 26,876  | -31.9%              |
|                      | Enrollees         | Age                    | <45                   | 21,264  | 18,775  | -11.7%              |
|                      |                   |                        | 45-64                 | 34,771  | 32,326  | -7.0%               |
|                      |                   |                        | 65+<br>(Combination)  | 68,429  | 63,454  | -7.3%               |
|                      |                   |                        | 65-84                 | 56,936  | 53,644  | -5.8%               |
|                      |                   |                        | 85-89                 | 7,010   | 6,170   | -12.0%              |
|                      |                   |                        | 90+                   | 4,483   | 3,640   | -18.8%              |
|                      |                   | Gender                 | Female                | 8,317   | 11,117  | 33.7%               |
|                      |                   |                        | Male                  | 116,147 | 103,437 | -10.9%              |
|                      |                   | Priority               | Priority 1-6          | 93,415  | 91,759  | -1.8%               |
|                      |                   |                        | Priority 7-8          | 31,049  | 22,795  | -26.6%              |

## **Market Enrollment Rurality (FY19)**

|   | Market               | Rural Enrollees | Total Enrollees | % Rurality |
|---|----------------------|-----------------|-----------------|------------|
| Ī | (V10) Northeast Ohio | 29,714          | 120,191         | 24.7%      |

## **County Enrollment Rurality**

| Market               | County         | Rural Enrollee | <b>Total Enrollees</b> | % Rurality |
|----------------------|----------------|----------------|------------------------|------------|
|                      |                |                |                        |            |
| (V10) Northeast Ohio | Ashland, OH    | 1,735          | 1,735                  | 100.0%     |
|                      | Carroll, OH    | 940            | 940                    | 100.0%     |
|                      | Columbiana, OH | 3,652          | 3,652                  | 100.0%     |
|                      | Crawford, OH   | 1,412          | 1,412                  | 100.0%     |
|                      | Cuyahoga, OH   | 65             | 31,062                 | 0.2%       |
|                      | Erie, OH       | 2,677          | 2,908                  | 92.1%      |
|                      | Geauga, OH     | 1,485          | 2,031                  | 73.1%      |
|                      | Harrison, OH   | 550            | 550                    | 100.0%     |
|                      | Holmes, OH     | 530            | 530                    | 100.0%     |
|                      | Huron, OH      | 1,687          | 1,687                  | 100.0%     |
|                      | Lake, OH       | 211            | 6,924                  | 3.0%       |
|                      | Lorain, OH     | 992            | 9,294                  | 10.7%      |
|                      | Mahoning, OH   | 1,100          | 7,307                  | 15.1%      |
|                      | Medina, OH     | 1,176          | 4,323                  | 27.2%      |
|                      | Portage, OH    | 1,469          | 4,312                  | 34.1%      |
|                      | Richland, OH   | 1,633          | 4,598                  | 35.5%      |
|                      | Stark, OH      | 1,655          | 10,440                 | 15.9%      |
|                      | Summit, OH     | 95             | 13,626                 | 0.7%       |
|                      | Trumbull, OH   | 1,389          | 7,140                  | 19.5%      |
|                      | Tuscarawas, OH | 3,007          | 3,007                  | 100.0%     |
|                      | Wayne, OH      | 2,254          | 2,713                  | 83.1%      |

## **FY19 Market Core Uniques**

| Market Name          | Core Uniques |
|----------------------|--------------|
| (V10) Northeast Ohio | 94,809       |

#### **Core Uniques**

| Market               | Facility   | FY15   | FY16   | FY17   | FY18   | FY19   | 5 Year %<br>Change |
|----------------------|--|--------|--------|--------|--------|--------|--------------------|
| (V10) Northeast Ohio | (V10) (541) Louis Stokes Cleveland Department of<br>Veterans Affairs Medical Center                  | 72,761 | 73,562 | 73,462 | 73,919 | 73,858 | 1.5%               |
|                      | (V10) (5419AA) Cleveland CLC   | 613    | 550    | 671    | 692    | 746    | 21.7%              |
|                      | (V10) (541BU) Cleveland Domiciliary  | 810    | 866    | 863    | 866    | 845    | 4.3%               |
|                      | (V10) (541BY) Canton VA Clinic   | 11,034 | 12,067 | 12,273 | 12,033 | 12,479 | 13.1%              |
|                      | (V10) (541BZ) Carl Nunziato VA Clinic  | 10,154 | 10,236 | 10,189 | 10,389 | 10,565 | 4.0%               |
|                      | (V10) (541GB) Lorain VA Clinic   | 10,272 | 10,089 | 10,137 | 9,917  | 10,837 | 5.5%               |
|                      | (V10) (541GC) Sandusky VA Clinic   | 5,120  | 4,231  | 4,375  | 4,328  | 4,425  | -13.6%             |
|                      | (V10) (541GD) David F. Winder Department of<br>Veterans Affairs Community Based Outpatient<br>Clinic | 7,510  | 7,791  | 7,803  | 7,718  | 7,720  | 2.8%               |
|                      | (V10) (541GF) Lake County VA Clinic  | 6,839  | 7,286  | 6,994  | 6,621  | 7,196  | 5.2%               |
|                      | (V10) (541GG) Akron VA Clinic  | 15,518 | 15,640 | 15,866 | 16,365 | 18,036 | 16.2%              |
|                      | (V10) (541GH) East Liverpool VA Clinic   | 2,929  | 2,863  | 3,014  | 3,435  | 3,536  | 20.7%              |
|                      | (V10) (541GI) Warren VA Clinic   | 4,081  | 4,099  | 4,581  | 4,983  | 4,697  | 15.1%              |
|                      | (V10) (541GJ) New Philadelphia VA Clinic   | 3,586  | 3,756  | 3,730  | 3,704  | 3,597  | 0.3%               |
|                      | (V10) (541GK) Ravenna VA Clinic  | 3,553  | 3,595  | 3,613  | 3,924  | 3,766  | 6.0%               |
|                      | (V10) (541GL) Parma VA Clinic  | 24,820 | 26,348 | 27,141 | 27,328 | 28,162 | 13.5%              |
|                      | (V10) (541GM) Cleveland VA Clinic-Superior   | 1,737  | 2,087  | 2,231  | 2,343  | 2,304  | 32.6%              |
|                      | (V10) (541PA) Cleveland PRRTP OH   | 210    | 173    | 109    | 56     | 68     | -67.6%             |
|                      | (V10) (541QA) Summit County VA Clinic  |        |        | 767    | 1,118  | 959    |                    |
|                      | (V10) (541QB) Cleveland VA Clinic-Euclid   |        |        | 945    | 1,666  | 1,795  |                    |
|                      | (V10) (541QE) Cleveland East Boulevard 3 VA<br>Mobile Clinic   |        |        |        |        | 223    |                    |
|                      | (V10) (541QF) Cuyahoga County 4 VA Mobile Clinic   |        | 1,225  | 1,668  | 1,706  | 1,734  |                    |

## **Emergency Department (ED) Encounters**

| Market  | Facility                   | Measure          | FY17   | FY18   | FY19   | 3 Year %<br>Change |
|---|----------------------------|------------------|--------|--------|--------|--------------------|
| (V10) Northeast Ohio (V10) (541) Cleveland-Ohio | (V10) (541) Cleveland-Ohio | 99281            | 1,593  | 2,382  | 3,433  | 115.5%             |
|   |                            | 99282            | 5,912  | 5,045  | 4,414  | -25.3%             |
|   |                            | 99283            | 10,142 | 10,094 | 9,675  | -4.6%              |
|   |                            | 99284            | 4,552  | 5,408  | 5,487  | 20.5%              |
|   |                            | 99285            | 2,009  | 1,634  | 2,080  | 3.5%               |
|   |                            | Total Encounters | 24,208 | 24,563 | 25,089 | 3.6%               |

#### **ED % Transfers & Admissions**

| Market Description   | Facility                   | Measure        | FY17  | FY18  | FY19  |
|----------------------|----------------------------|----------------|-------|-------|-------|
| (V10) Northeast Ohio | (V10) (541) Cleveland-Ohio | % Transfers    | 0.7%  | 0.7%  | 0.7%  |
|                      |                            | VA Admission % | 18.6% | 19.8% | 19.9% |

## **Outpatient Encounters (FY17-19)**

| Market               | Facility                       | Clinic Grouping | FY17    | FY18    | FY19    | 3 Year %<br>Change |
|----------------------|--------------------------------|-----------------|---------|---------|---------|--------------------|
| (V10) Northeast Ohio | (V10) (541) Cleveland-Ohio     | Mental Health   | 167,427 | 158,787 | 171,787 | 2.6%               |
|                      |                                | Primary Care    | 59,808  | 65,302  | 65,291  | 9.2%               |
|                      |                                | Specialty Care  | 803,658 | 808,545 | 829,491 | 3.2%               |
|                      | (V10) (541BY) Canton           | Mental Health   | 16,257  | 15,464  | 15,270  | -6.1%              |
|                      |                                | Primary Care    | 43,528  | 42,210  | 41,441  | -4.8%              |
|                      |                                | Specialty Care  | 38,256  | 38,399  | 37,773  | -1.3%              |
|                      | (V10) (541BZ) Youngstown       | Mental Health   | 17,613  | 17,776  | 18,915  | 7.4%               |
|                      |                                | Primary Care    | 34,139  | 35,745  | 35,008  | 2.5%               |
|                      |                                | Specialty Care  | 30,504  | 31,952  | 32,508  | 6.6%               |
|                      | (V10) (541GB) Lorain           | Mental Health   | 11,838  | 12,982  | 12,624  | 6.6%               |
|                      |                                | Primary Care    | 23,794  | 21,173  | 21,835  | -8.2%              |
|                      |                                | Specialty Care  | 16,706  | 17,234  | 18,649  | 11.6%              |
|                      | (V10) (541GC) Sandusky         | Mental Health   | 5,866   | 6,551   | 7,515   | 28.1%              |
|                      |                                | Primary Care    | 9,401   | 10,924  | 12,422  | 32.1%              |
|                      |                                | Specialty Care  | 6,768   | 7,582   | 8,287   | 22.4%              |
|                      | (V10) (541GD) Mansfield        | Mental Health   | 16,559  | 17,365  | 18,011  | 8.8%               |
|                      |                                | Primary Care    | 31,190  | 29,150  | 32,123  | 3.0%               |
|                      |                                | Specialty Care  | 25,774  | 26,316  | 27,889  | 8.2%               |
|                      | (V10) (541GF) Lake County      | Mental Health   | 4,492   | 1,520   | 6,860   | 52.7%              |
|                      |                                | Primary Care    | 30,116  | 26,629  | 28,200  | -6.4%              |
|                      |                                | Specialty Care  | 9,912   | 7,280   | 21,199  | 113.9%             |
|                      | (V10) (541GG) Akron            | Mental Health   | 30,820  | 24,779  | 24,246  | -21.3%             |
|                      |                                | Primary Care    | 41,092  | 39,935  | 43,388  | 5.6%               |
|                      |                                | Specialty Care  | 48,734  | 55,151  | 59,294  | 21.7%              |
|                      | (V10) (541GH) East Liverpool   | Mental Health   | 3,498   | 4,526   | 3,897   | 11.4%              |
|                      |                                | Primary Care    | 11,843  | 12,482  | 11,131  | -6.0%              |
|                      |                                | Specialty Care  | 4,739   | 5,309   | 4,109   | -13.3%             |
|                      | (V10) (541GI) Warren           | Mental Health   | 9,007   | 8,099   | 7,622   | -15.4%             |
|                      |                                | Primary Care    | 15,125  | 15,323  | 14,149  | -6.5%              |
|                      |                                | Specialty Care  | 6,281   | 7,001   | 6,764   | 7.7%               |
|                      | (V10) (541GJ) New Philadelphia | Mental Health   | 5,255   | 4,570   | 4,452   | -15.3%             |
|                      |                                | Primary Care    | 15,227  | 18,092  | 15,623  | 2.6%               |
|                      |                                |                 |         |         |         |                    |

## **Outpatient Encounters (FY17-19)**

| Market               | Facility   | Clinic Grouping | FY17   | FY18   | FY19   | 3 Year %<br>Change |
|----------------------|--|-----------------|--------|--------|--------|--------------------|
| (V10) Northeast Ohio | (V10) (541GJ) New Philadelphia                     | Specialty Care  | 9,927  | 11,236 | 11,366 | 14.5%              |
|                      | (V10) (541GK) Ravenna                              | Mental Health   | 4,248  | 5,288  | 5,438  | 28.0%              |
|                      |  | Primary Care    | 11,464 | 11,818 | 13,211 | 15.2%              |
|                      |  | Specialty Care  | 5,831  | 6,304  | 8,752  | 50.1%              |
|                      | (V10) (541GL) Parma                                | Mental Health   | 42,553 | 43,327 | 43,748 | 2.8%               |
|                      |  | Primary Care    | 55,862 | 57,116 | 62,187 | 11.3%              |
|                      |  | Specialty Care  | 73,476 | 79,201 | 87,238 | 18.7%              |
|                      | (V10) (541GM) Cleveland-Superior                   | Specialty Care  | 2,811  | 2,959  | 2,910  | 3.5%               |
|                      | (V10) (541PA) Cleveland PRRTP OH                   | Mental Health   | 268    | 0      | 0      | -100.0%            |
|                      | (V10) (541QA) Summit County                        | Mental Health   | 5,390  | 10,617 | 10,092 | 87.2%              |
|                      | (V10) (541QB) Cleveland-Euclid                     | Mental Health   | 3,957  | 8,740  | 9,452  | 138.9%             |
|                      |  | Primary Care    | 0      | 0      | 204    |                    |
|                      |  | Specialty Care  | 7,201  | 13,980 | 11,936 | 65.8%              |
|                      | (V10) (541QE) Cleveland East Boulevard 3<br>Mobile | Specialty Care  | 0      | 0      | 230    |                    |
|                      | (V10) (541QF) Cuyahoga County 4 Mobile             | Specialty Care  | 2,427  | 2,486  | 2,627  | 8.2%               |

|   |                                      |         |         |         | Change |
|---|--------------------------------------|---------|---------|---------|--------|
| o (V10) (541) Louis Stokes Cleveland Department of Veterans<br>Affairs Medical Center | Allergy and<br>Immunology            | 1,894   | 2,212   | 2,604   | 37.5%  |
|   | Anesthesiology                       | 821     | 2,404   | 8,847   | 977.6% |
|   | Audiology / Speech<br>Pathology      | 15,227  | 13,886  | 14,000  | -8.1%  |
|   | Blind Rehabilitation                 | 1,820   | 1,565   | 1,596   | -12.3% |
|   | Cardiology                           | 44,488  | 36,507  | 31,128  | -30.0% |
|   | Critical Care /<br>Pulmonary Disease | 19,711  | 22,154  | 22,116  | 12.2%  |
|   | Dermatology                          | 12,949  | 14,659  | 16,821  | 29.9%  |
|   | Emergency Medicine                   | 24,941  | 25,795  | 26,200  | 5.0%   |
|   | Endocrinology                        | 3,611   | 3,987   | 4,460   | 23.5%  |
|   | Gastroenterology                     | 15,868  | 16,792  | 17,291  | 9.0%   |
|   | Geriatric Medicine                   | 19,146  | 17,225  | 14,992  | -21.7% |
|   | Hematology-Oncology                  | 15,403  | 16,162  | 16,935  | 9.9%   |
|   | Infectious Disease                   | 1,986   | 1,921   | 1,932   | -2.7%  |
|   | Nephrology                           | 11,435  | 3,764   | 4,122   | -64.0% |
|   | Neurological Surgery                 | 723     | 967     | 1,294   | 79.0%  |
|   | Neurology                            | 6,819   | 7,743   | 8,287   | 21.5%  |
|   | Nutrition                            | 7,685   | 6,901   | 6,660   | -13.3% |
|   | Obstetrics &<br>Gynecology           | 1,129   | 2,056   | 2,255   | 99.7%  |
|   | Occupational Health                  | 2,116   | 2,065   | 1,586   | -25.0% |
|   | Ophthalmology                        | 8,730   | 8,997   | 8,940   | 2.4%   |
|   | Optometry                            | 19,029  | 18,438  | 17,158  | -9.8%  |
|   | Orthopaedic Surgery                  | 6,567   | 6,827   | 6,691   | 1.9%   |
|   | Otolaryngology                       | 6,900   | 7,215   | 7,428   | 7.7%   |
|   | Pain Medicine                        | 13,780  | 15,129  | 15,465  | 12.2%  |
|   | Pathology                            | 316,464 | 325,745 | 331,762 | 4.8%   |
|   | Pharmacy                             | 30,791  | 30,021  | 40,399  | 31.2%  |
|   | Physical Medicine & Rehabilitation   | 49,083  | 51,528  | 51,928  | 5.8%   |
|   | Plastic Surgery                      | 1,922   | 2,381   | 2,554   | 32.9%  |

| Market               | Facility  | Specialty                            | FY17   | FY18   | FY19   | 3 Year %<br>Change |
|----------------------|---|--------------------------------------|--------|--------|--------|--------------------|
| (V10) Northeast Ohio | (V10) (541) Louis Stokes Cleveland Department of Veterans Affairs<br>Medical Center | Podiatry                             | 14,597 | 13,001 | 11,805 | -19.1%             |
|                      |   | Prosthetics/Orthotics                | 7,511  | 8,136  | 8,671  | 15.4%              |
|                      |   | Radiology                            | 63,441 | 67,572 | 67,812 | 6.9%               |
|                      |   | Rheumatology                         | 3,298  | 3,426  | 3,429  | 4.0%               |
|                      |   | Sleep Medicine                       | 0      | 0      | 2,891  |                    |
|                      |   | Surgery                              | 29,359 | 26,982 | 25,372 | -13.6%             |
|                      |   | Thoracic Surgery                     | 1,098  | 765    | 850    | -22.6%             |
|                      |   | Urology                              | 12,911 | 13,189 | 12,291 | -4.8%              |
|                      |   | Vascular Surgery                     | 10,405 | 10,428 | 10,919 | 4.9%               |
|                      | (V10) (541BY) Canton VA Clinic  | Anesthesiology                       | 0      | 0      | 29     |                    |
|                      |   | Audiology / Speech<br>Pathology      | 2,943  | 2,755  | 2,825  | -4.0%              |
|                      |   | Cardiology                           | 1,008  | 806    | 834    | -17.3%             |
|                      |   | Critical Care /<br>Pulmonary Disease | 443    | 576    | 894    | 101.8%             |
|                      |   | Dermatology                          | 265    | 381    | 411    | 55.1%              |
|                      |   | Endocrinology                        | 1,235  | 1,201  | 556    | -55.0%             |
|                      |   | Geriatric Medicine                   | 3,858  | 3,804  | 3,666  | -5.0%              |
|                      |   | Nutrition                            | 1,215  | 1,401  | 1,338  | 10.1%              |
|                      |   | Optometry                            | 5,979  | 6,288  | 6,600  | 10.4%              |
|                      |   | Pain Medicine                        | 421    | 316    | 341    | -19.0%             |
|                      |   | Pharmacy                             | 1,695  | 1,888  | 2,597  | 53.2%              |
|                      |   | Physical Medicine & Rehabilitation   | 6,380  | 6,425  | 5,705  | -10.6%             |
|                      |   | Podiatry                             | 5,916  | 6,645  | 6,349  | 7.3%               |
|                      |   | Prosthetics/Orthotics                | 2,488  | 1,717  | 1,783  | -28.3%             |
|                      |   | Radiology                            | 3,889  | 3,580  | 3,401  | -12.5%             |
|                      |   | Rheumatology                         | 160    | 117    | 108    | -32.5%             |
|                      |   | Surgery                              | 156    | 204    | 134    | -14.1%             |
|                      |   | Urology                              | 205    | 295    | 202    | -1.5%              |
|                      | (V10) (541BZ) Carl Nunziato VA Clinic   | Audiology / Speech<br>Pathology      | 141    | 196    | 105    | -25.5%             |
|                      |   | Blind Rehabilitation                 | 190    | 174    | 171    | -10.0%             |

| Market               | Facility                              | Specialty                          | FY17  | FY18  | FY19  | 3 Year %<br>Change |
|----------------------|---------------------------------------|------------------------------------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541BZ) Carl Nunziato VA Clinic | Cardiology                         | 1,022 | 1,051 | 1,293 | 26.5%              |
|                      |                                       | Critical Care / Pulmonary Disease  | 235   | 390   | 863   | 267.2%             |
|                      |                                       | Dermatology                        | 132   | 243   | 299   | 126.5%             |
|                      |                                       | Endocrinology                      | 688   | 573   | 409   | -40.6%             |
|                      |                                       | Geriatric Medicine                 | 3,329 | 3,488 | 2,758 | -17.2%             |
|                      |                                       | Nutrition                          | 808   | 789   | 761   | -5.8%              |
|                      |                                       | Ophthalmology                      | 0     | 0     | 130   |                    |
|                      |                                       | Optometry                          | 4,521 | 4,526 | 4,662 | 3.1%               |
|                      |                                       | Pain Medicine                      | 427   | 395   | 461   | 8.0%               |
|                      |                                       | Pharmacy                           | 1,343 | 1,517 | 2,351 | 75.1%              |
|                      |                                       | Physical Medicine & Rehabilitation | 5,391 | 5,380 | 4,977 | -7.7%              |
|                      |                                       | Podiatry                           | 5,457 | 6,239 | 6,407 | 17.4%              |
|                      |                                       | Prosthetics/Orthotics              | 1,778 | 1,932 | 2,107 | 18.5%              |
|                      |                                       | Radiology                          | 4,488 | 4,420 | 4,258 | -5.1%              |
|                      |                                       | Rheumatology                       | 122   | 129   | 109   | -10.7%             |
|                      |                                       | Surgery                            | 280   | 323   | 222   | -20.7%             |
|                      |                                       | Urology                            | 152   | 187   | 165   | 8.6%               |
|                      | (V10) (541GB) Lorain VA Clinic        | Audiology / Speech<br>Pathology    | 0     | 0     | 32    |                    |
|                      |                                       | Cardiology                         | 556   | 769   | 689   | 23.9%              |
|                      |                                       | Critical Care / Pulmonary Disease  | 75    | 180   | 545   | 626.7%             |
|                      |                                       | Dermatology                        | 76    | 146   | 157   | 106.6%             |
|                      |                                       | Endocrinology                      | 921   | 158   | 0     | -100.0%            |
|                      |                                       | Geriatric Medicine                 | 3,355 | 3,682 | 3,294 | -1.8%              |
|                      |                                       | Nephrology                         | 40    | 0     | 0     | -100.0%            |
|                      |                                       | Nutrition                          | 671   | 691   | 575   | -14.3%             |
|                      |                                       | Optometry                          | 5,380 | 5,797 | 7,179 | 33.4%              |
|                      |                                       | Pharmacy                           | 708   | 1,053 | 1,379 | 94.8%              |
|                      |                                       | Physical Medicine & Rehabilitation | 2,003 | 1,935 | 1,838 | -8.2%              |

| Market               | Facility  | Specialty                            | FY17  | FY18  | FY19  | 3 Year %<br>Change |
|----------------------|---|--------------------------------------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541GB) Lorain VA Clinic  | Podiatry                             | 2,896 | 2,774 | 2,937 | 1.4%               |
|                      |   | Surgery                              | 2     | 1     | 3     |                    |
|                      |   | Urology                              | 23    | 48    | 21    | -8.7%              |
|                      | (V10) (541GC) Sandusky VA Clinic  | Cardiology                           | 107   | 215   | 217   | 102.8%             |
|                      |   | Critical Care /<br>Pulmonary Disease | 119   | 92    | 92    | -22.7%             |
|                      |   | Dermatology                          | 42    | 57    | 48    | 14.3%              |
|                      |   | Endocrinology                        | 952   | 902   | 245   | -74.3%             |
|                      |   | Nutrition                            | 204   | 225   | 240   | 17.6%              |
|                      |   | Optometry                            | 2,288 | 2,413 | 2,500 | 9.3%               |
|                      |   | Pharmacy                             | 203   | 424   | 1,092 | 437.9%             |
|                      |   | Physical Medicine & Rehabilitation   | 86    | 54    | 192   | 123.3%             |
|                      |   | Podiatry                             | 2,037 | 2,548 | 2,961 | 45.4%              |
|                      |   | Prosthetics/Orthotics                | 685   | 648   | 699   | 2.0%               |
|                      |   | Surgery                              | 7     | 4     | 1     | -85.7%             |
|                      |   | Urology                              | 38    | 0     | 0     | -100.0%            |
|                      | (V10) (541GD) David F. Winder Department of Veterans Affairs<br>Community Based Outpatient Clinic | Anesthesiology                       | 0     | 0     | 0     |                    |
|                      |   | Audiology / Speech<br>Pathology      | 141   | 168   | 67    | -52.5%             |
|                      |   | Cardiology                           | 897   | 865   | 932   | 3.9%               |
|                      |   | Critical Care /<br>Pulmonary Disease | 441   | 388   | 591   | 34.0%              |
|                      |   | Dermatology                          | 38    | 110   | 232   | 510.5%             |
|                      |   | Geriatric Medicine                   | 4,494 | 4,537 | 4,711 | 4.8%               |
|                      |   | Nephrology                           | 32    | 1     | 0     | -100.0%            |
|                      |   | Nutrition                            | 1,008 | 925   | 1,057 | 4.9%               |
|                      |   | Optometry                            | 4,502 | 4,708 | 4,975 | 10.5%              |
|                      |   | Pain Medicine                        | 163   | 152   | 115   | -29.4%             |
|                      |   | Pharmacy                             | 1,856 | 1,725 | 2,213 | 19.2%              |
|                      |   | Physical Medicine & Rehabilitation   | 3,748 | 4,109 | 4,458 | 18.9%              |
|                      |   | Podiatry                             | 4,850 | 5,199 | 5,064 | 4.4%               |

| Market               | Facility  | Specialty                            | FY17  | FY18  | FY19  | 3 Year %<br>Change |
|----------------------|---|--------------------------------------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541GD) David F. Winder Department of Veterans Affairs<br>Community Based Outpatient Clinic | Prosthetics/Orthotics                | 822   | 828   | 896   | 9.0%               |
|                      | , ,   | Radiology                            | 2,610 | 2,494 | 2,465 | -5.6%              |
|                      |   | Surgery                              | 91    | 107   | 110   | 20.9%              |
|                      |   | Urology                              | 81    | 0     | 3     | -96.3%             |
|                      | (V10) (541GF) Lake County VA Clinic   | Cardiology                           | 440   | 495   | 434   | -1.4%              |
|                      |   | Critical Care /<br>Pulmonary Disease | 91    | 134   | 619   | 580.2%             |
|                      |   | Dermatology                          | 57    | 14    | 267   | 368.4%             |
|                      |   | Endocrinology                        | 0     | 47    | 11    |                    |
|                      |   | Geriatric Medicine                   | 3,619 | 3,745 | 3,953 | 9.2%               |
|                      |   | Nutrition                            | 1,280 | 1,378 | 1,294 | 1.1%               |
|                      |   | Optometry                            | 1,631 | 42    | 4,175 | 156.0%             |
|                      |   | Pharmacy                             | 1,115 | 894   | 1,596 | 43.1%              |
|                      |   | Physical Medicine & Rehabilitation   | 351   | 409   | 4,258 | 1113.1%            |
|                      |   | Podiatry                             | 1,327 | 122   | 3,474 | 161.8%             |
|                      |   | Radiology                            | 0     | 0     | 1,118 |                    |
|                      |   | Surgery                              | 1     | 0     | 0     | -100.0%            |
|                      | (V10) (541GG) Akron VA Clinic   | Anesthesiology                       | 0     | 0     | 0     |                    |
|                      |   | Audiology / Speech<br>Pathology      | 3,450 | 6,154 | 7,299 | 111.6%             |
|                      |   | Cardiology                           | 1,105 | 1,395 | 2,336 | 111.4%             |
|                      |   | Critical Care / Pulmonary Disease    | 381   | 587   | 1,813 | 375.9%             |
|                      |   | Dermatology                          | 242   | 250   | 383   | 58.3%              |
|                      |   | Endocrinology                        | 1,461 | 1,514 | 601   | -58.9%             |
|                      |   | Gastroenterology                     | 0     | 0     | 531   |                    |
|                      |   | Geriatric Medicine                   | 8,383 | 8,257 | 8,483 | 1.2%               |
|                      |   | Hematology-Oncology                  | 0     | 0     | 248   |                    |
|                      |   | Nutrition                            | 1,285 | 1,063 | 1,191 | -7.3%              |
|                      |   | Ophthalmology                        | 0     | 0     | 173   |                    |
|                      |   | Optometry                            | 6,118 | 7,123 | 7,203 | 17.7%              |
|                      |   | Pain Medicine                        | 489   | 465   | 529   | 8.2%               |

| Market               | Facility                               | Specialty                            | FY17  | FY18  | FY19  | 3 Year %<br>Change |
|----------------------|--|--------------------------------------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541GG) Akron VA Clinic          | Pharmacy                             | 2,034 | 2,157 | 2,516 | 23.7%              |
|                      |  | Physical Medicine & Rehabilitation   | 8,462 | 9,743 | 9,256 | 9.4%               |
|                      |  | Podiatry                             | 5,630 | 5,776 | 5,985 | 6.3%               |
|                      |  | Prosthetics/Orthotics                | 479   | 800   | 938   | 95.8%              |
|                      |  | Radiology                            | 5,533 | 5,155 | 4,805 | -13.2%             |
|                      |  | Rheumatology                         | 1,256 | 1,377 | 1,461 | 16.3%              |
|                      |  | Sleep Medicine                       | 0     | 0     | 65    |                    |
|                      |  | Surgery                              | 12    | 5     | 0     | -100.0%            |
|                      |  | Urology                              | 145   | 0     | 281   | 93.8%              |
|                      |  | Vascular Surgery                     | 2,269 | 3,330 | 3,197 | 40.9%              |
|                      | (V10) (541GH) East Liverpool VA Clinic | Cardiology                           | 351   | 734   | 487   | 38.7%              |
|                      |  | Critical Care / Pulmonary Disease    | 45    | 49    | 44    | -2.2%              |
|                      |  | Dermatology                          | 31    | 146   | 164   | 429.0%             |
|                      |  | Endocrinology                        | 28    | 6     | 0     | -100.0%            |
|                      |  | Nutrition                            | 304   | 260   | 177   | -41.8%             |
|                      |  | Optometry                            | 1,551 | 1,418 | 761   | -50.9%             |
|                      |  | Pharmacy                             | 871   | 1,194 | 961   | 10.3%              |
|                      |  | Physical Medicine & Rehabilitation   | 203   | 121   | 59    | -70.9%             |
|                      |  | Podiatry                             | 1,089 | 1,050 | 1,034 | -5.1%              |
|                      |  | Prosthetics/Orthotics                | 266   | 331   | 421   | 58.3%              |
|                      |  | Surgery                              | 0     | 0     | 1     |                    |
|                      | (V10) (541GI) Warren VA Clinic         | Cardiology                           | 459   | 558   | 425   | -7.4%              |
|                      |  | Critical Care /<br>Pulmonary Disease | 38    | 51    | 65    | 71.1%              |
|                      |  | Dermatology                          | 16    | 62    | 84    | 425.0%             |
|                      |  | Nutrition                            | 708   | 632   | 560   | -20.9%             |
|                      |  | Optometry                            | 1,730 | 1,629 | 1,328 | -23.2%             |
|                      |  | Pharmacy                             | 47    | 733   | 794   | 1589.4%            |
|                      |  | Physical Medicine & Rehabilitation   | 174   | 198   | 193   | 10.9%              |

| Market               | Facility                                 | Specialty                            | FY17  | FY18  | FY19  | 3 Year %<br>Change |
|----------------------|--|--------------------------------------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541GI) Warren VA Clinic           | Podiatry                             | 2,834 | 2,892 | 3,014 | 6.4%               |
|                      |  | Prosthetics/Orthotics                | 275   | 246   | 301   | 9.5%               |
|                      |  | Surgery                              | 0     | 0     | 0     |                    |
|                      | (V10) (541GJ) New Philadelphia VA Clinic | Cardiology                           | 299   | 403   | 500   | 67.2%              |
|                      |  | Critical Care /<br>Pulmonary Disease | 62    | 65    | 60    | -3.2%              |
|                      |  | Dermatology                          | 118   | 168   | 160   | 35.6%              |
|                      |  | Geriatric Medicine                   | 2,949 | 3,393 | 3,119 | 5.8%               |
|                      |  | Nutrition                            | 415   | 418   | 412   | -0.7%              |
|                      |  | Optometry                            | 2,263 | 2,440 | 2,501 | 10.5%              |
|                      |  | Pharmacy                             | 941   | 1,109 | 1,215 | 29.1%              |
|                      |  | Physical Medicine & Rehabilitation   | 264   | 228   | 173   | -34.5%             |
|                      |  | Podiatry                             | 2,419 | 2,750 | 2,925 | 20.9%              |
|                      |  | Prosthetics/Orthotics                | 178   | 262   | 301   | 69.1%              |
|                      |  | Surgery                              | 2     | 0     | 0     | -100.0%            |
|                      |  | Urology                              | 17    | 0     | 0     | -100.0%            |
|                      | (V10) (541GK) Ravenna VA Clinic          | Cardiology                           | 288   | 374   | 383   | 33.0%              |
|                      | '10) (541GK) Ravenna VA Clinic           | Critical Care /<br>Pulmonary Disease | 59    | 50    | 62    | 5.1%               |
|                      |  | Dermatology                          | 124   | 118   | 157   | 26.6%              |
|                      |  | Geriatric Medicine                   | 0     | 0     | 1,931 |                    |
|                      |  | Nutrition                            | 339   | 363   | 325   | -4.1%              |
|                      |  | Optometry                            | 1,528 | 1,619 | 1,783 | 16.7%              |
|                      |  | Pharmacy                             | 1,018 | 791   | 808   | -20.6%             |
|                      |  | Physical Medicine & Rehabilitation   | 338   | 334   | 278   | -17.8%             |
|                      |  | Podiatry                             | 2,137 | 2,655 | 3,025 | 41.6%              |
|                      |  | Surgery                              | 0     | 0     | 0     |                    |
|                      | (V10) (541GL) Parma VA Clinic            | Anesthesiology                       | 0     | 0     | 549   |                    |
|                      |  | Audiology / Speech<br>Pathology      | 5,522 | 8,137 | 9,440 | 71.0%              |
|                      |  | Cardiology                           | 8,330 | 8,065 | 8,224 | -1.3%              |

| Market               | Facility  | Specialty                          | FY17   | FY18   | FY19   | 3 Year %<br>Change |
|----------------------|---|------------------------------------|--------|--------|--------|--------------------|
| (V10) Northeast Ohio | (V10) (541GL) Parma VA Clinic                             | Critical Care / Pulmonary Disease  | 1,613  | 1,913  | 2,351  | 45.8%              |
|                      |   | Dermatology                        | 321    | 329    | 629    | 96.0%              |
|                      |   | Endocrinology                      | 2,191  | 1,331  | 693    | -68.4%             |
|                      |   | Gastroenterology                   | 840    | 641    | 922    | 9.8%               |
|                      |   | Geriatric Medicine                 | 5,851  | 6,195  | 5,771  | -1.4%              |
|                      |   | Nephrology                         | 516    | 802    | 1,000  | 93.8%              |
|                      |   | Neurology                          | 1,292  | 1,450  | 1,751  | 35.5%              |
|                      |   | Nutrition                          | 1,748  | 1,689  | 1,775  | 1.5%               |
|                      |   | Ophthalmology                      | 37     | 285    | 610    | 1548.6%            |
|                      |   | Optometry                          | 8,221  | 8,231  | 8,390  | 2.1%               |
|                      |   | Pain Medicine                      | 154    | 256    | 1,294  | 740.3%             |
|                      |   | Pharmacy                           | 2,669  | 2,611  | 2,683  | 0.5%               |
|                      |   | Physical Medicine & Rehabilitation | 9,517  | 9,467  | 10,729 | 12.7%              |
|                      |   | Podiatry                           | 6,002  | 7,305  | 7,824  | 30.4%              |
|                      |   | Prosthetics/Orthotics              | 2,446  | 2,526  | 2,632  | 7.6%               |
|                      |   | Radiology                          | 14,108 | 15,289 | 16,010 | 13.5%              |
|                      |   | Rheumatology                       | 473    | 574    | 638    | 34.9%              |
|                      |   | Sleep Medicine                     | 0      | 0      | 113    |                    |
|                      |   | Surgery                            | 369    | 484    | 699    | 89.4%              |
|                      |   | Urology                            | 1,256  | 1,621  | 2,511  | 99.9%              |
|                      | (V10) (541GM) Cleveland VA Clinic-Superior                | Gastroenterology                   | 816    | 940    | 919    | 12.6%              |
|                      |   | Surgery                            | 1,995  | 2,019  | 1,991  | -0.2%              |
|                      | (V10) (541QB) Cleveland VA Clinic-Euclid                  | Nephrology                         | 7,171  | 13,961 | 11,770 | 64.1%              |
|                      |   | Nutrition                          | 0      | 0      | 16     |                    |
|                      |   | Optometry                          | 0      | 0      | 0      |                    |
|                      |   | Physical Medicine & Rehabilitation | 30     | 19     | 150    | 400.0%             |
|                      | (V10) (541QE) Cleveland East Boulevard 3 VA Mobile Clinic | Audiology / Speech<br>Pathology    | 0      | 0      | 230    |                    |
|                      | (V10) (541QF) Cuyahoga County 4 VA Mobile Clinic          | Audiology / Speech<br>Pathology    | 2,427  | 2,486  | 2,627  | 8.2%               |
|                      |   |                                    |        |        |        |                    |

# **Surgical Cases (FY15-19)**

| Market             | Facility   | Setting  | FY15  | FY16  | FY17  | FY18  | FY19  | 5 Year %<br>Change |
|--------------------|--|----------|-------|-------|-------|-------|-------|--------------------|
| Departme<br>Center | (V10) (541) Louis Stokes Cleveland<br>Department of Veterans Affairs Medical | IP Cases | 2,255 | 2,217 | 2,176 | 2,141 | 2,266 | 0.5%               |
|                    | •  | OP Cases | 2,804 | 2,593 | 2,653 | 2,869 | 2,910 | 3.8%               |
|                    | , , ,  | IP Cases | 7     | 14    | 16    | 19    | 16    | 122.2%             |
|                    |  | OP Cases | 1,643 | 1,958 | 2,045 | 2,097 | 2,058 | 25.3%              |

#### **Historical VAMC ADC**

| Market               | Facility   | Bed Service       | FY15  | FY16  | FY17  | FY18  | FY19  | 5 Year %<br>Change |
|----------------------|--|-------------------|-------|-------|-------|-------|-------|--------------------|
| (V10) Northeast Ohio | (V10) (541) Louis Stokes Cleveland<br>Department of Veterans Affairs | Blind             | 13.7  | 13.1  | 13    | 12.7  | 12.4  | -9.5%              |
|                      | Medical Center   | CLC               | 133.8 | 121.2 | 130.2 | 127.5 | 129.3 | -3.4%              |
|                      |  | Intermediate      |       |       |       |       |       |                    |
|                      |  | Medical           | 86    | 84.4  | 85.5  | 82.5  | 76.4  | -11.2%             |
|                      |  | Mental Health     | 24.4  | 22.3  | 23.7  | 23.2  | 22.9  | -6.1%              |
|                      |  | Neurology         | 2.2   | 2.7   | 2.8   | 2.5   | 2     | -9.1%              |
|                      |  | Rehab Med         | 5.5   | 5.6   | 5.4   | 4.8   | 9.1   | 65.5%              |
|                      |  | RRTP*             | 166.8 | 147.2 | 152.2 | 154.1 | 147.6 | -11.5%             |
|                      |  | Spinal Cord       | 27.6  | 47.3  | 50.3  | 46    | 42.8  | 55.1%              |
|                      |  | Surgery           | 34.8  | 31.8  | 32.5  | 30.7  | 31.4  | -9.8%              |
|                      |  | Total<br>Med/Surg | 123   | 118.9 | 120.8 | 115.7 | 109.8 | -10.7%             |
|                      |  | VAMC Total        | 494.8 | 475.6 | 495.6 | 484   | 473.9 | -4.2%              |

## FY19 RRTP Beds and ADC

| Market               | Facility  |   | RRTP Service | FY19 ADC | Operational<br>Beds |
|----------------------|-----------|---|--------------|----------|---------------------|
| (V10) Northeast Ohio | Cleveland |   | CWT/TR       | 22.5     | 25                  |
|                      |           | C | DCHV         | 67.6     | 86                  |
|                      |           |   | DOM SA       | 35.6     | 43                  |
|                      |           |   | General DOM  | 17.8     | 20                  |
|                      |           |   | PTSD         | 7.6      | 10                  |

## **FY19 Community Capacity**

| Market               | Facility     | Bed Section | Beds  | Beds Available | % Occupancy |
|----------------------|--------------|-------------|-------|----------------|-------------|
|                      |              |             |       |                |             |
| (V10) Northeast Ohio | Cleveland    | Acute       | 8,164 | 1,400          | 63.6%       |
|                      | Nursing Home | 10,265      | 972   | 81.7%          |             |
|                      |              | Psych       | 528   | 60             | 70.7%       |
|                      |              | Rehab       | 153   | 36             | 56.4%       |

## **BY19 Projected Parent Facility ADC (EHCPM)**

| Market               | Parent Facility   | Bed Service                   | Funding Source | FY19<br>Actual | FY29<br>Projected | 10 Year %<br>Change |
|----------------------|-------------------|-------------------------------|----------------|----------------|-------------------|---------------------|
| (V10) Northeast Ohio | Cleveland, OH HCS | Acute Inpatient Med/Surg      | Community      | 29.2           | 36.7              | 25.5%               |
|                      |                   |                               | In-House       | 115.8          | 99.1              | -14.5%              |
|                      |                   | Acute Inpatient Medicine      | Community      | 17.0           | 22.7              | 34.0%               |
|                      |                   |                               | In-House       | 78.4           | 66.0              | -15.8%              |
|                      |                   | Acute Inpatient Mental Health | Community      | 2.0            | 2.5               | 27.1%               |
|                      |                   |                               | In-House       | 25.3           | 23.2              | -8.5%               |
|                      |                   | Acute Inpatient Surgery       | Community      | 12.2           | 13.9              | 13.8%               |
|                      |                   |                               | In-House       | 37.4           | 33.1              | -11.6%              |
|                      |                   | Inpatient Blind Rehab         | In-House       | 12.1           | 13.8              | 13.6%               |
|                      |                   | Inpatient LTSS                | Community      | 345.7          | 501.9             | 45.2%               |
|                      |                   |                               | In-House       | 125.3          | 111.9             | -10.7%              |
|                      |                   | Inpatient Residential Rehab   | In-House       | 140.7          | 103.9             | -26.1%              |
|                      |                   | Inpatient Spinal Cord Injury  | In-House       | 41.1           | 28.9              | -29.6%              |

## **BY19 Projected Market ADC (EHCPM)**

| Market               | Planning Category Group          | Funding Source | FY19 ADC<br>Actual | FY29 ADC<br>Projected | 10 Year %<br>Change |
|----------------------|----------------------------------|----------------|--------------------|-----------------------|---------------------|
| (V10) Northeast Ohio | Acute Inpatient Med/Surg         | Community      | 29.5               | 36.8                  | 24.9%               |
|                      |                                  | In-House       | 107.6              | 91.6                  | -14.9%              |
|                      | Acute Inpatient Medicine         | Community      | 17.0               | 22.8                  | 34.1%               |
|                      |                                  | In-House       | 75.0               | 63.0                  | -16.0%              |
|                      | Acute Inpatient Mental<br>Health | Community      | 3.3                | 4.2                   | 24.9%               |
|                      | rieatti                          | In-House       | 25.1               | 22.7                  | -9.7%               |
|                      | Acute Inpatient Surgery          | Community      | 12.5               | 14.1                  | 12.3%               |
|                      |                                  | In-House       | 32.6               | 28.6                  | -12.3%              |
|                      | Inpatient Blind Rehab            | Community      | 0.0                | 0.0                   |                     |
|                      |                                  | In-House       | 3.0                | 3.3                   | 8.8%                |
|                      | Inpatient LTSS                   | Community      | 333.4              | 481.2                 | 44.4%               |
|                      |                                  | In-House       | 120.3              | 106.1                 | -11.9%              |
|                      | Inpatient Residential Rehab      | Community      | 0.0                | 0.0                   |                     |
|                      |                                  | In-House       | 133.9              | 99.4                  | -25.8%              |
|                      | Inpatient Spinal Cord Injury     | Community      | 0.0                | 0.0                   |                     |
|                      |                                  | In-House       | 30.1               | 20.2                  | -33.0%              |

## **BY18 RRTP Projected Market ADC (3D Model)**

| Market               | Market (BY18) | RRTP Bed Section | FY28 ADC | FY28 Bed Need |
|----------------------|---------------|------------------|----------|---------------|
|                      |               |                  |          |               |
| (V10) Northeast Ohio | 10-g          | All Bed Sections | 64.5     | 76            |
|                      |               | Dom Homeless     | 18.5     | 22            |
|                      |               | Gen Dom          | 22.3     | 26            |
|                      |               | PTSD             | 5.3      | 6             |
|                      |               | Substance Abuse  | 18.4     | 22            |

# **BY19 Projected Market RVUs (EHCPM)**

| Market               | Planning Category Group             | Funding Source | FY19 RVUs<br>Actual | FY29 RVUs<br>Projected | 10 Year %<br>Change |
|----------------------|-------------------------------------|----------------|---------------------|------------------------|---------------------|
| (V10) Northeast Ohio | Amb LTSS Home and Community Based   | In-House       | 137,352             | 149,683                | 9.0%                |
|                      | Amb Medical Specialties             | Community      | 87,213              | 189,307                | 117.1%              |
|                      |                                     | In-House       | 391,971             | 579,378                | 47.8%               |
|                      | Amb Mental Health Programs          | Community      | 5,718               | 10,113                 | 76.9%               |
|                      |                                     | In-House       | 504,686             | 701,905                | 39.1%               |
|                      | Amb Pathology                       | Community      | 2,759               | 7,961                  | 188.5%              |
|                      |                                     | In-House       | 23,129              | 32,126                 | 38.9%               |
|                      | Amb Primary Care                    | Community      | 11,039              | 66,617                 | 503.5%              |
|                      |                                     | In-House       | 362,435             | 511,622                | 41.2%               |
|                      | Amb Radiology                       | Community      | 26,704              | 48,905                 | 83.1%               |
|                      |                                     | In-House       | 90,551              | 126,798                | 40.0%               |
|                      | Amb Rehab Therapies                 | Community      | 9,400               | 20,541                 | 118.5%              |
|                      |                                     | In-House       | 100,084             | 144,793                | 44.7%               |
|                      | Amb Surgical Specialties            | Community      | 33,417              | 85,216                 | 155.0%              |
|                      |                                     | In-House       | 214,487             | 336,614                | 56.9%               |
|                      | Specialty Care (Amb Med/Surg/Rehab) | Community      | 130,030             | 295,064                | 126.9%              |
|                      |                                     | In-House       | 706,542             | 1,060,784              | 50.1%               |

#### **BY19 Projected Market Dental Procedures (EHCPM)**

| Market               | Funding Source | FY19<br>Procedures<br>Actual | FY29<br>Procedures<br>Projected | Projected %<br>Change |
|----------------------|----------------|------------------------------|---------------------------------|-----------------------|
| (V10) Northeast Ohio | Community      | 1,253                        | 1,968                           | 57.1%                 |
|                      | In-House       | 43,145                       | 63,472                          | 47.1%                 |

#### **Enrollment Proximity to Current VA Sites by Market**

| Market               | Market (FY18) | Total<br>Enrollees | Primary Care #<br>of Enrollees<br>within 30 Min<br>Drive Time | Primary Care %<br>of Enrollees<br>within 30 Min<br>Drive Time | Secondary Care<br># of Enrollees<br>within 60 Min<br>Drive Time | Secondary Care<br>% of Enrollees<br>within 60 Min<br>Drive Time |
|----------------------|---------------|--------------------|---|---|---|---|
| (V10) Northeast Ohio | 10-g          | 130,572            | 122,215   | 93.6%   | 77,637  | 59.5%   |

## **Real Property Overview**

| Market               | Facility  | Acres<br>Available | Property<br>Size | Main Patient<br>Care Facility<br>Construction<br>Date | Most Recent<br>Renovation<br>Date (Main<br>Hospital<br>Building) | Estimated<br>Annual<br>Operations and<br>Maintenance<br>Cost | FCA Cost     | Seismic Risk |
|----------------------|-----------|--------------------|------------------|---|--|--|--------------|--------------|
| (V10) Northeast Ohio | Cleveland | 0.0                | 18               | 1964  | 1989   | \$15,637,539   | \$48,162,225 | Low Risk     |

# Building FCA

| Market               | Station              | Building No | Function Title                      | FCA Correction<br>Cost |
|----------------------|----------------------|-------------|-------------------------------------|------------------------|
| (V10) Northeast Ohio | Cleveland, Wade Park | 1           | Main Hospital and Clinical Addition | \$40,536,637           |
|                      |                      | 1A          | AmbCare Add                         | \$1,764,460            |
|                      |                      | 1B          | Bed Tower                           | \$686,339              |
|                      |                      | 2           | Cuyahoga PRRTP House                | \$579,174              |
|                      |                      | EC          | Energy Center                       | \$366,817              |
|                      |                      | EUL-Admin   | Administration Building             | \$5,942                |
|                      |                      | NAV         | Wade Park Annex                     | \$285,100              |
|                      |                      | P1          | Parking Garage                      | \$391,786              |
|                      |                      | Site        | Site Utilities                      | \$3,545,972            |

# **Emergency Preparedness - Primary Receiving Center(s)**

| Market               | Primary Receiving Center       |
|----------------------|--------------------------------|
|                      |                                |
| (V10) Northeast Ohio | Louis Stokes VA Medical Center |

## **FY20 Allocated Training Positions**

| Market               | Facility  | Training Category      | Program Name   | Paid | WOC | Total HPTs |
|----------------------|-----------|------------------------|--|------|-----|------------|
| (V10) Northeast Ohio | Cleveland | Advanced Fellow        | Quality Scholars   | 7    | 0   | 7          |
|                      |           | Anesthesiology/Surgery | Anesthesiology   | 0    | 20  | 20         |
|                      |           |                        | Neurological Surgery   | 0    | 17  | 17         |
|                      |           |                        | Obstetrics & Gynecology                                      | 0    | 22  | 22         |
|                      |           |                        | Ophthalmology  | 0    | 15  | 15         |
|                      |           |                        | Orthopaedic Surgery  | 0    | 12  | 12         |
|                      |           |                        | Otolaryngology-Head and Neck Surgery                         | 0    | 20  | 20         |
|                      |           |                        | Plastic Surgery  | 0    | 9   | 9          |
|                      |           |                        | Surgery  | 0    | 45  | 45         |
|                      |           |                        | Surgery-Thoracic Surgery                                     | 0    | 2   | 2          |
|                      |           |                        | Thoracic Surgery-integrated                                  | 0    | 2   | 2          |
|                      |           |                        | Urology  | 0    | 25  | 25         |
|                      |           |                        | Urology-Female Pelvic Medicine and<br>Reconstructive Surgery | 0    | 3   | 3          |
|                      |           |                        | Vascular Surgery-integrated                                  | 0    | 7   | 7          |
|                      |           | Associated Health      | Audiologist Extern   | 3    | 1   | 4          |
|                      |           |                        | Audiologist Student  | 0    | 14  | 14         |
|                      |           |                        | Blind Rehabilitation Specialist                              | 2    | 0   | 2          |
|                      |           |                        | Chaplain (CPE)   | 6    | 0   | 6          |
|                      |           |                        | Licensed Professional Mental Health<br>Counselor             | 2    | 0   | 2          |
|                      |           |                        | Medical Technician   | 0    | 1   | 1          |
|                      |           |                        | Nutritionist/Dietetic Technician                             | 0    | 1   | 1          |
|                      |           |                        | Nutritionist/dietitian Intern/Fellow                         | 12   | 3   | 15         |
|                      |           |                        | Occupational Therapist Assistant                             | 0    | 1   | 1          |
|                      |           |                        | Occupational Therapist Fellow                                | 0    | 1   | 1          |
|                      |           |                        | Occupational Therapist Student/Intern                        | 0    | 7   | 7          |
|                      |           |                        | Optometrist Resident/Fellow                                  | 5    | 0   | 5          |
|                      |           |                        | Optometrist Student/Extern                                   | 0    | 9   | 9          |
|                      |           |                        | Pharmacist Resident/Fellow                                   | 10   | 0   | 10         |
|                      |           |                        | Pharmacist Student/Extern                                    | 0    | 55  | 55         |
|                      |           |                        | Phlebotomist   | 0    | 2   | 2          |
|                      |           |                        | Physical Therapist Resident                                  | 4    | 0   | 4          |
|                      |           |                        | Physical Therapist Student/Intern                            | 0    | 19  | 19         |

## **FY20 Allocated Training Positions**

| Market               | Facility  | Training Category | Program Name   | Paid | WOC | Total HPTs |
|----------------------|-----------|-------------------|--|------|-----|------------|
|                      |           |                   |  |      |     |            |
| (V10) Northeast Ohio | Cleveland | Associated Health | Physician Assistant Student                                    | 0    | 29  | 29         |
|                      |           |                   | Podiatrist Resident/Fellow                                     | 7    | 0   | 7          |
|                      |           |                   | Podiatrist Student/Extern                                      | 0    | 193 | 193        |
|                      |           |                   | Psychologist Intern  | 11   | 3   | 14         |
|                      |           |                   | Psychologist Resident  | 10   | 0   | 10         |
|                      |           |                   | Radiologic Technologist  | 0    | 4   | 4          |
|                      |           |                   | Recreation Therapist   | 0    | 2   | 2          |
|                      |           |                   | Social Worker Student/Intern                                   | 7    | 10  | 17         |
|                      |           |                   | Speech-Language Pathologist<br>Student/Intern                  | 4    | 1   | 5          |
|                      |           | Dental            | Dentist, General Practice                                      | 4    | 0   | 4          |
|                      |           |                   | Dentist, Oral and Maxillofacial Surgery                        | 0    | 4   | 4          |
|                      |           | Medical           | Dermatology  | 0    | 25  | 25         |
|                      |           |                   | Family Medicine  | 0    | 19  | 19         |
|                      |           |                   | Internal Medicine  | 0    | 141 | 141        |
|                      |           |                   | Internal Medicine-Cardiovascular<br>Disease                    | 0    | 17  | 17         |
|                      |           |                   | Internal Medicine-Chief Resident in<br>Quality and Safety      | 1    | 0   | 1          |
|                      |           |                   | Internal Medicine-Clinical Cardiac<br>Electrophysiology        | 0    | 4   | 4          |
|                      |           |                   | Internal Medicine-Endocrinology,<br>Diabetes & Metabolism      | 0    | 6   | 6          |
|                      |           |                   | Internal Medicine-Gastroenterology                             | 0    | 12  | 12         |
|                      |           |                   | Internal Medicine-Geriatric Medicine                           | 0    | 6   | 6          |
|                      |           |                   | Internal Medicine-Hematology & Medical Oncology                | 0    | 15  | 15         |
|                      |           |                   | Internal Medicine-Infectious Disease                           | 0    | 9   | 9          |
|                      |           |                   | Internal Medicine-Interventional Cardiology                    | 0    | 3   | 3          |
|                      |           |                   | Internal Medicine-Nephrology                                   | 0    | 10  | 10         |
|                      |           |                   | Internal Medicine-Pulmonary Disease and Critical Care Medicine | 0    | 15  | 15         |
|                      |           |                   | Internal Medicine-Rheumatology                                 | 0    | 6   | 6          |
|                      |           |                   | Internal Medicine-Sleep Medicine                               | 0    | 6   | 6          |
|                      |           |                   | Medical Student  | 0    | 562 | 562        |
|                      |           |                   | Physical Medicine & Rehabilitation                             | 0    | 32  | 32         |
|                      |           |                   | Preventive Medicine  | 0    | 2   | 2          |
|                      |           |                   |  |      |     |            |

## **FY20 Allocated Training Positions**

| Market               | Facility  | Training Category        | Program Name                    | Paid | WOC | Total HPTs |
|----------------------|-----------|--------------------------|---------------------------------|------|-----|------------|
| (V10) Northeast Ohio | Cleveland | Nurse                    | APN-Anesthetist                 | 0    | 17  | 17         |
|                      |           |                          | APN-NP Resident                 | 6    | 0   | 6          |
|                      |           |                          | APN-NP Student                  | 0    | 4   | 4          |
|                      |           | Licensed Practical Nurse | 0                               | 76   | 76  |            |
|                      |           |                          | Registered Nurse Student        | 0    | 282 | 282        |
|                      |           |                          | RN Doctoral (PhD-ND-DNP-DNS)    | 0    | 1   | 1          |
|                      |           | Psychiatry/Neurology     | Neurology                       | 0    | 50  | 50         |
|                      |           |                          | Psychiatry                      | 0    | 36  | 36         |
|                      |           |                          | Psychiatry-Addiction Psychiatry | 0    | 2   | 2          |
|                      |           | Radiology/Pathology      | Radiology-Diagnostic Radiology  | 0    | 40  | 40         |
|                      |           |                          | Radiology-Radiation Oncology    | 0    | 7   | 7          |

## **Academic Ranking (by Total HPTs)**

| Market               | Facility  | Total HPTs | National<br>Ranking (out of<br>154 sites) |
|----------------------|-----------|------------|---|
| (V10) Northeast Ohio | Cleveland | 2,065      | 10  |

#### **FY21** Research Funding

| Market               | Medical Center | Total Funding<br>(VA and Non-VA) | Rank | Ī |
|----------------------|----------------|----------------------------------|------|---|
| (V10) Northeast Ohio | Cleveland      | \$16,368,396                     | 26   | 6 |

#### **Footnotes**

#### Market Population Rank (out of 95 markets)

Note: The VISN 02 Finger Lakes and Southern Tier markets merged in 2019 during the market assessments, changing the count of markets assessed from 96 to 95.

#### County-Based Enrollee Projections

Note: Market totals do not exactly match the values in the Rurality tables due to a difference in data sources.

Note: Counties with fewer than 10 enrollees were reduced to 0 based on privacy guidelines.

#### Rurality

Note: FY19 enrollees in this data differ from the values shown in the EHCPM (Projected Population). This data is sourced from the Geocoded Enrollee file.

Note: Rural enrollees include enrollees residing in rural and highly rural locations.

Note: Counties with fewer than 10 enrollees were reduced to 0 based on privacy guidelines.

#### **Core Uniques**

Note: Core uniques excludes uniques who have only used telephone triage, pharmacy, and lab.

#### Historical VAMC ADC

Note: \*RRTP includes Domiciliary and Compensated Work Therapy/Transitional Residence (CWT/TR) bed services.

#### FY19 Community Capacity

Note: Although similar data was incorporated in the DD&F, community capacity in this compendium displays the supply of total community beds, occupancy, and beds available among community providers within 60 minutes of each VAMC or HCC. Each community hospital or nursing home which is not currently included in the Veterans Community Care Program or does not meet the minimum quality criteria established in the Section 203 Criteria analysis is excluded. Additionally, providers at or above target occupancy (80% for short-term acute care hospitals, 90% for nursing homes) are assumed to have no bed availability.

#### BY19 Projected Market RVUs (EHCPM)

Note: Specialty Care includes Medical Specialties, Surgical Specialties, and Rehab Therapies.

#### **OP Encounters & SC Encounters**

Note: The stop code mapping used in the data compendium is based on a custom stop code mapping created by VA for the market assessments. The Data Discovery and Findings (DD&F) documents used the Public Data Clinic Group stop code mapping.

#### Enrollment Proximity to Current VA Sites by Market

Note: Primary care sites include VAMCs, HCCs, MS CBOCs, and CBOCs. Secondary care sites include VA facilities providing ambulatory surgery or acute inpatient services.

#### Real Property Overview

Note: Acres available provides an indication of any excess or surplus land, not currently in use and has no plans for future expansion needs that could be used for future development.

#### Building FCA

Note: Project Costs to remediate FCAs vary significantly, from below assessed value to more than 3 times the value.

#### FY20 Allocated Training Positions

Note: This data displays the number of paid, unpaid (WOC), and total Health Profession Trainees (HPTs) at each facility by training program. This data was acquired from the Office of Academic Affiliations.

#### **Sources**

Facility Hierarchy
FY21 Q4 VA Site Tracking (VAST)

Enrollee Projections BY19 EHCPM

Rurality

Geocoded Enrollee FY19 Q4

Core Uniques
VSSC Uniques Cube

ED/UCC Encounters
VSSC Encounters Cube

ED Transfers & Admissions
Emergency Medicine Management Tool

Surgical Cases
National Surgery Office

Outpatient Encounters VSSC Encounters Cube

Historical VAMC ADC
MCAO Discharge Cube

Projected Demand BY19 EHCPM

Projected RRTP Demand
RRTP 3D Model

FY19 RRTP Beds and ADC
RRTP Program Office

FY19 Quality Community Capacity 2019 CMS Cost Reports

Enrollment Proximity to Current VA Sites by Market FY19 Q4 Enrollment; FY19 Q4 VAST data; VHA OPP Planning Systems Support Group

Real Property Overview

CAI Buildings and FCA Condition Gaps Report (November 2021)

Building FCA

CAI Buildings and FCA Condition Gaps Report (November 2021)

Emergency Preparedness Primary Receiving Centers
Office of Emergency Management

Academic Mission - Allocated Training Positions
Office of Academic Affiliations

Research Mission - Research Funding Office of Research and Development